



C. Earl Hunter, Commissioner

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



WILKERSON FUEL COMPANY INC  
P O BOX 2835  
ROCK HILL SC 29732-4835

FEB 01 2004

Re: Tier I Directive  
378 Truck Stop, Hwy 378 West, Saluda, SC  
UST Permit # 07960; Cost Agreement # 37564; MWA # UMW-23283  
Release Reported October 3, 1974  
Edgefield County

Dear Frank Wilkerson:

The Underground Storage Tank (UST) Management Division has reviewed the file for this site and has determined the next scope of work is a Tier I Assessment. The assessment should be conducted in accordance with the Tier I Assessment guidance document and in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier I assessment document and appendices may be obtained from our website at [http://www.scdhec.gov/environment/lwm/html/ustguidance\\_docs.htm](http://www.scdhec.gov/environment/lwm/html/ustguidance_docs.htm).

Our records indicate that a contractor has not been selected to perform assessment activities at this facility. Please indicate your choice of contractor on the enclosed Owner/Operator Information Sheet. The enclosed form should be completed and returned to the Program to my attention within **fifteen days** of the date of this letter. A list of South Carolina certified contractors is enclosed for your convenience.

The Division has pre-approved a total of \$11,230.00 for implementation of the Tier I Assessment. The total includes costs for completion of up to 75 feet of permanent monitoring well footage. Additional monitoring well footage can be billed at the SUPERB allowable rate of \$38 per foot provided that the cost is pre-approved by the Division. Please note that in addition to the sample analyses required in the Tier I Guidance Document, all initial assessment activities are now required to include analyses for lead and EDB as directed in the October 10, 2003 SUPERB Allowable Costs Document. **Also, if any drinking water wells are located within 1000 feet of the UST system, a water sample shall be obtained from the well(s) and analyzed for the appropriate parameters.**

You or your contractor can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

**The assessment report and invoice are due within sixty (60) days from the date of this letter.** If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

Implementation of the Tier I Assessment may proceed immediately upon receipt of this correspondence. Approval to install three permanent monitoring wells is enclosed. Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Also note that only EPA Method 8260B will be accepted for analysis of volatile organic hydrocarbons except EDB must be analyzed under EPA Method 8011 for the lower detection limit. Any site rehabilitation activity associated with the UST release must be performed by a SCDHEC-certified site rehabilitation contractor as required by R.61-98. According to Section IV.C.1 of the SUPERB Site Regulations and Fund Access Regulations, R.61-98, all plans, reports, invoices, and other documents relating to site rehabilitation activities which have been prepared or approved by a certified contractor shall be signed by the certified contractor and bear his certification number.

The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit # 07960. If you have any questions concerning this correspondence, please call at (803) 896-6633. I can also be reached by email at [ridglect@dhec.sc.gov](mailto:ridglect@dhec.sc.gov) or by fax at (803) 896-6245.

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved cost agreement  
Monitoring well approval  
Owner/Operator Lead Information form  
Certified contractors list

cc: Technical file (w/enc)



C. Earl Hunter, Commissioner

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### Monitoring Well Approval

**Approval is hereby granted to: Wilkerson Fuel Company**  
**Facility: 378 Truck Stop, Hwy 378 W, Saluda, SC**  
**UST Permit Number: 07960**  
**County: Edgefield**

This approval is for the installation of three (3) groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

**Please note that R.61-71 requires the following:**

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to Cathleen Ridgley the project manager (tel: (803) 896-6633 or e-mail: [ridglect@scdhec.sc.gov](mailto:ridglect@scdhec.sc.gov)) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

**Date of Issuance: January 14, 2010**

**Approval #: UMW-23283**

Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

# Approved Cost Agreement 37564

Facility: 07960 378 TRUCK STOP

RIDGLECT

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u> | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|-------------------------|------------------|-------------------|---------------|
| 20 TIER I                 |                   | TIER I                  | 1.0000           | 11,230.00         | 11,230.00     |
|                           |                   |                         |                  | Total Amount      | 11,230.00     |



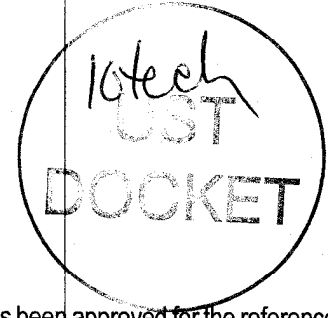
C. Earl Hunter, Commissioner

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NOV 03 2010

RENEE SPENCER  
PACE ANALYTICAL SERVICES  
9800 KINCEY AVE STE 100  
HUNTERSVILLE NC 28078

Re: Laboratory Analyses Approval  
Bid # IFB-33871-05/29/08-EMW, PO #4500011309



Dear Ms. Spencer:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facilities. The facilities have been assigned individual Cost Agreement (CA) numbers as listed below. Please reference the CA number and Purchase Order #4500011309 on the appropriate invoice submitted for payment against the facility. SCDHEC personnel will perform the sampling.

| UST Permit # | Facility        | Analyses-Groundwater           | CA #  | Bottles (Y/N) | Date Needed |
|--------------|-----------------|--------------------------------|-------|---------------|-------------|
| 06456        | Newberry County | 1-BTEXMN, DCA, EDB, Oxygenates | 40300 | N             | ----        |
| 05576        | Perry's Texaco  | 12-BTEXMN & Oxygenates         | 40441 | N             | ----        |
| 07960        | 378 Truck Stop  | 4-BTEXMN, DCA, EDB, Oxygenates | 40448 | N             | ----        |

If you have any questions or need further assistance, please contact me at (803) 896-6397 or [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,

Debra L. Thoma, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreements

cc: Technical Files (w/o enc.)

# Approved Cost Agreement 40448

Facility: 07960 378 TRUCK STOP

RIDGLECT

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u> | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|-------------------------|------------------|-------------------|---------------|
| 11 ANALYSES               |                   |                         |                  |                   |               |
|                           | GW GROUNDWATER    | A BTEX+NAPTH+MTBE       | 4.0000           | 23.00             | 92.00         |
|                           |                   | B RUSH BTEX+NAPTH+MTBE  | 1.0000           | 312.00            | 312.00        |
|                           |                   | F EDB                   | 4.0000           | 25.00             | 100.00        |
|                           |                   | P 8 OXYGENATES          | 4.0000           | 30.00             | 120.00        |
| <b>Total Amount</b>       |                   |                         |                  |                   | <b>624.00</b> |

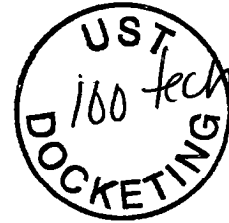


Catherine E. Heigel, Director

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

MR FRANK WILKERSON  
WILKERSON FUEL COMPANY INC  
P O BOX 2835  
ROCK HILL SC 29732-4835

SEP 11 2015



Re: **Groundwater Sampling Directive**  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit # 07960; CA# 50870  
Release reported October 3, 1974  
Site Specific Work Plan received September 3, 2015  
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed and approved the referenced Site Specific Work Plan (SSWP) submitted on your behalf by Environmental Compliance Services, Inc. The next appropriate scope of work at the site is a comprehensive groundwater sampling event. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Environmental Compliance Services, Inc.'s approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the Agency UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement # 50870 has been approved for the amount shown on the enclosed cost agreement form for sampling of all monitoring wells, water supply wells, or surface water locations associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, 8 oxygenates, and EDB.

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activity(ies). If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice are due within 60 days from the date of this letter.** The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Environmental Compliance Services, Inc. can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual chemicals of concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit # 07960. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0610, by fax at (803) 898-0673, or by e-mail at [hetricml@dhec.sc.gov](mailto:hetricml@dhec.sc.gov).

Sincerely,



Matthew L. Hetrick, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Environmental Compliance Services, Inc., PO Box 3528, Fort Mill, SC 29708 (with enc.)  
Technical File (with enc.)



**Approved Cost Agreement 50870**

Facility: 07960 378 TRUCK STOP

HETRICML

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u>    |
|-----------------------------------|-------------------|-----------------------------------|------------------|-------------------|------------------|
| 01 PLAN                           |                   | A1 SITE SPECIFIC WORK PLAN        | 1.0000           | 150.00            | 150.00           |
| 04 MOB/DEMOB                      |                   | B1 PERSONNEL                      | 3.0000           | 423.00            | 1,269.00         |
| 10 SAMPLE COLLECTION              |                   | A1 GROUNDWATER (PURGE)            | 40.0000          | 60.00             | 2,400.00         |
|                                   |                   | C1 WATER SUPPLY                   | 17.0000          | 22.00             | 374.00           |
|                                   |                   | D1 GROUNDWATER NO PURGE/DUPLICATE | 3.0000           | 28.00             | 84.00            |
|                                   |                   | H1 FIELD BLANK                    | 3.0000           | 24.60             | 73.80            |
| 11 ANALYSES                       | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 67.0000          | 122.00            | 8,174.00         |
|                                   |                   | F1 EDB BY 8011                    | 63.0000          | 45.20             | 2,847.60         |
| 17 DISPOSAL                       |                   | AA WASTEWATER                     | 300.0000         | 0.56              | 168.00           |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PRT REPORT PREPARATION            | 0.1200           | 15,540.40         | 1,864.85         |
| <b>Total Amount</b>               |                   |                                   |                  |                   | <b>17,405.25</b> |

# Document Receipt Information

Hard Copy       CD       Email

Date Received 12-15-15

Permit Number 07960

Project Manager Matt Hetrick

Name of Contractor ECS

UST Certification Number \_\_\_\_\_

Docket Number 1010eeh

Scanned \_\_\_\_\_

GWS



**GROUNDWATER SAMPLING REPORT  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, SOUTH CAROLINA  
UST PERMIT #07960**

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

Prepared for:  
Wilkerson Fuel Company  
Post Office Box 2835  
Rock Hill, South Carolina

ECS Project No.14-214210  
December 14, 2015

Prepared by:  
ECS, Inc.  
13504 South Point Blvd, Unit F  
Charlotte, NC 28273  
tel 704.583.2711 fax 704.583.2744  
[www.ecsconsult.com](http://www.ecsconsult.com)

**GROUNDWATER SAMPLING REPORT**

**378 TRUCK STOP  
731 HWY 378  
EDGEFIELD, SOUTH CAROLINA  
EDGEFIELD COUNTY**

**UST PERMIT NO. 07960  
ECS PROJECT NO. 14-214210**

Prepared For:

Wilkerson Fuel Company, Inc.  
Post Office Box 2835  
Rock Hill, South Carolina 29732

Prepared By:

Environmental Compliance Services, Inc.  
2764 Pleasant Road #11420  
Fort Mill, South Carolina 29708-7299

December 14, 2015



Noelle France  
Project Manager



David R. Mazorra, P.E.  
SC Licensed Professional Engineer #31409



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## 1.0 INTRODUCTION

This report presents the results of the groundwater sampling activities conducted at the 378 Truck Stop site between November 9 and 13, 2015. The activities were conducted in accordance with the Underground Storage Tank (UST) Quality Assurance Program Plan (QAPP) Revision 2.0, and Cost Agreement Number 50870 as approved by the South Carolina Department of Health and Environmental Control (SCDHEC) in correspondence dated September 11, 2015.

### 1.1 SITE INFORMATION

**UST Facility Name:** 378 Truck Stop  
**UST Permit Number:** 07960  
**Facility Address:** 731 Highway 378  
Edgefield, South Carolina  
**Telephone Number:** Unknown

### 1.2 UST OWNER/OPERATOR

**Name:** Wilkerson Fuel Company, Inc.  
**Address:** Post Office Box 2835  
Rock Hill, South Carolina  
**Telephone Number:** (803) 324-4080

### 1.3 PROPERTY OWNER INFORMATION

**Name:** Gail and Barbara Whitmer  
**Address:** 1226 Highway 378 East  
Edgefield, South Carolina 29824  
**Telephone Number:** Unknown

### 1.4 DHEC CERTIFIED UST SITE REHABILITATION CONTRACTOR INFORMATION

**Name:** Environmental Compliance Services, Inc. (ECS)  
**Address:** 2764 Pleasant Road #11420  
Fort Mill, South Carolina 29708 -7299  
**Telephone Number:** (800) 627-0493  
**Certification Number:** 358

### 1.5 SITE HISTORY

**UST Permit:** 07960  
**Site Name:** 378 Truck Stop  
**Date Release Reported to SCDHEC:** October 3, 1974, date confirmed July 8, 1996  
**Estimated Quantity of Product Released:** Not reported  
**Cause of Release:** UST system  
**SC RBCA Classification Code:** 2AA

**UST Permit #07960**

| <b>UST #</b> | <b>Size (gallons)</b> | <b>Product</b> | <b>Date Installed</b> | <b>Status</b>        | <b>Date Closed</b> |
|--------------|-----------------------|----------------|-----------------------|----------------------|--------------------|
| 1            | 550                   | Diesel         | Unknown               | Abandoned by Removal | 1/1/1987           |
| 2            | 1,000                 | Gasoline       | Unknown               | Abandoned by Removal | 1/1/1987           |
| 3            | 2,000                 | Gasoline       | Unknown               | Abandoned by Removal | 1/1/1987           |

The site was not in use at the time of the corrective action and groundwater sampling activities summarized in this report. An abandoned building was present onsite during our visits associated with the site activities. A concrete slab was located directly to the east of, and abutting, the onsite building. A release at the site was reported on October 3, 1974 and was confirmed on July 8, 1996. Reportedly, one 550-gallon diesel UST, one 1,000-gallon gasoline UST, one 2,000-gallon UST, their associated piping, and dispensers were removed from the site on January 1, 1987. The site did not contain USTs at the time of this report. A Site Locus map showing surrounding properties has been included as **Figure 1**. A Site Plan has been included as **Figure 2**.

**1.6 REGIONAL GEOLOGY/HYDROGEOLOGY**

The area is located in the Carolina Terrane of the Piedmont Physiographic Province. The Carolina Terrane consists of upper Precambrian to Cambrian greenschist facies metasedimentary and metavolcanic rocks intruded by numerous granitic and gabbroic plutons ranging in age from 265 to 650 million years. A mantle of residual soil and saprolite is reported to typically overlie the crystalline rocks of the Carolina Terrane. The thickness of the mantle ranges from approximately six to 60 feet, although it apparently is absent in places and thicker than 60 feet in others. The surface layers are reported to be composed chiefly of sandy clay. The clay content of most saprolites typically ranges from 10 to 25 percent, with some containing as little as three percent and others as much as 70 percent.

The mantle that covers the underlying fractured bedrock in most places provides an intergranular medium through which recharge into, and discharge of water from, the fractured rocks commonly occur. As a result, groundwater flow has been reported to occur within a composite two-media system. The top of the system has been the water table surface, which has been typically located within the saprolite. The fractured bedrock is expected to generally grade downward into unfractured rock below a depth of approximately 300 feet. The base of the groundwater system is therefore indistinct.



## **2.0 RECEPTOR SURVEY & SITE DATA**

### **2.1 RECEPTOR SURVEY**

A receptor survey was conducted within a 1,000 foot radius of the subject site during the May 2010 Tier I assessment activities. The 378 Truck Stop site was located in a predominantly residential area in Edgefield County. Properties directly surrounding the site were open fields. Nearby properties were mainly open fields and residences. A volunteer fire department station was located on the corner of Highway 378 and Faulkner Mountain Road.

At the time of the May 2010 Tier II, municipal water was not provided to the area. Multiple private water supply wells were identified during the Tier I receptor survey and were subsequently plotted on a site vicinity map. A comprehensive survey which included the private water supply wells, conducted during Tier II assessment activities, resulted in multiple changes to the site vicinity map.

### **2.2 SITE GEOLOGY/HYDROGEOLOGY**

During the Tier I the project area was underlain at shallow depths by light brown silt and silty clay. Rock and partially weathered rock were encountered below the silt and clay at varying depths throughout the study area. Partially weathered rock was first encountered at depths ranging from approximately 26 feet below land surface (bls) (07960-MW18 and 07960-MW27) to 50 feet bls (07690-TW9) across the subject area. Overall, partially weathered rock was first encountered at or below a depth of 30 feet bls onsite and in locations south of the site. Partially weathered rock was first encountered at more shallow depths in locations west, southwest, and southeast of the site. Rock was first encountered at depths ranging from approximately 30 feet bls (07960-MW8) to 68 feet bls (07690-TW3) across the subject area. The depths to rock observed during shallow monitoring well installation varied from approximately 30 feet bls to 39 feet bls. Overall, rock was encountered a bit deeper onsite and south of the site as compared to other areas (north, east, west, southwest, and southeast). Depths to rock were observed at shallower depths (between 32 and 35 feet bls) during telescoping well installation in areas southwest and southeast of the site, as compared to telescoping wells installed onsite and in areas south of the site. The largest discrepancy was observed at telescoping well 07690-TW3, located southwest of the site, where rock was not encountered until a depth of 68 feet bls.

The percentages of gravel, sand, and silt/clay in a soil sample collected during Tier I well installation activities from monitoring well 07960-MW3 at a depth of 40 feet below grade were 10.0%, 39.8%, and 50.1%, respectively. The percentages of gravel, sand, silt, and clay in a soil sample collected during Tier II well installation activities from 07960-MW12 at a depth of 30 feet below grade were 4.1%, 27.5%, 50.7%, and 17.7%, respectively. A soil sample was proposed for collection during installation of monitoring well 07690-TW5 at a depth within the well's screened interval. This sample was subsequently collected at a depth of 55 feet below grade. Following discussions with SCDHEC, the sample was not submitted for laboratory grain size analysis, as this sample consisted mainly of pulverized rock particles from the well drilling process.

### 3.0 ASSESSMENT INFORMATION

#### 3.1 SOIL ASSESSMENT

Soil assessment was not required for the scope of work outlined in the September 11, 2015 directive.

#### 3.2 GROUNDWATER FIELD SCREENING

Groundwater field screening was not required for the scope of work outlined in the September 11, 2015 directive.

#### 3.3 MONITORING WELL INFORMATION

Monitoring wells installation was not required for the scope of work outlined in the September 11, 2015 directive.

##### 3.3.1 Water Level Measurements

Forty-one monitoring wells (07960-MW1 through 07960-MW31, 07960-TW1 through 07960-TW9, and 07960-RW1) were gauged for depths to groundwater and total well depths on November 9, 2015.

The groundwater elevations measured in the shallow monitoring wells, relative to a temporary benchmark ranged from 89.25 feet (07960-MW17) to 72.16 feet (07960-MW8). Based on these data, the groundwater flow direction beneath the site was generally toward the northwest in the northern portion of the site, and to the south in the central portion of the site. Groundwater mounds with radial groundwater flow are located near 07960-MW1 and 07960-MW17. A groundwater low is located near 07960-MW8.

The horizontal hydraulic gradient was estimated based on the change in hydraulic head per unit distance, calculated by using the formula  $i = (h_2 - h_1)/d$ , referenced from the “EPA On-line Tools for Site Assessment Calculation” website. In this calculation,  $i$  is the gradient,  $h$  is the hydraulic head at the up gradient monitoring well ( $h_1$ ) and down gradient monitoring well ( $h_2$ ), and  $d$  is the distance between the down gradient monitoring well and the up gradient monitoring well. The horizontal hydraulic gradient was 0.0108 ft/ft between monitoring wells 07960-MW3 and 07960-MW26, and 0.0621 ft/ft between monitoring wells 07960-MW1 and 07960-MW20. Historical groundwater elevation data is presented in **Table 2**. A groundwater elevation map for site monitoring wells is included as **Figure 5**.

The groundwater elevations in adjacent (paired) shallow and telescoping monitoring wells were used to calculate the vertical gradient. The vertical gradient was calculated using the formula  $dh/dl = (h_2 - h_1) / (z_2 - z_1)$ , referenced from the “EPA On-line Tools for Site Assessment Calculation” website. In this calculation, the vertical hydraulic gradient is the difference in head divided by the vertical distance of mid-points of the screened intervals between wells. The vertical hydraulic gradient between monitoring well pair 07960-MW3 and 07960-TW2 was 0.05478 ft/ft in the downward direction. The vertical hydraulic gradient between monitoring well pair 07960-MW16 and 07960-TW6 was 0.007025 ft/ft in the upward direction.

### 3.3.2 Water Sampling and Analyses

Forty-one monitoring wells (07960-MW1 through 07960-MW31, 07960-TW1 through 07960-TW9, and 07960-RW1) were purged and sampled between November 9 and 12, 2015. Shallow monitoring wells were purged and sampled using a new, disposable polyethylene bailer while wearing new, disposable nitrile gloves. Monitoring wells 07960-TW1 through 07960-TW9 were purged using a decontaminated submersible pump, new lanyard, disposable polyethylene tubing while wearing new, disposable nitrile gloves. Purging was accomplished by removing three to five well volumes and in-field groundwater quality parameters were stabilized or until the well was bailed dry and allowed to recharge.

Granular Activated Carbon (GAC) units have been installed at 07960-WSW1 and 07960-WSW8 to remove dissolved petroleum hydrocarbon compounds from drinking water.

Seventeen water supply well samples (07960-WSW1 Pre GAC, 07960-WSW1 Post GAC, 07960-WSW2, 07960-WSW3, 07960-WSW4, 07960-WSW5, 07960-WSW6, 07960-WSW7, 07960-WSW8 Pre GAC, 07960-WSW8 Post GAC, 07960-WSW9, 07960-WSW10, 07960-WSW11, 07960-WSW12, 07960-WSW13, 07960-WSW14, and 07960-WSW15) were purged and sampled on November 10, 2015. Water supply wells were purged for approximately 10 minutes with in-place pumps and samples were collected from building exterior spigots.

Groundwater samples collected were containerized in laboratory-prepared glass bottles, packed on ice, and transported to Pace Analytical Services, Inc. (Huntersville, NC), a South Carolina certified laboratory. Standard chain-of-custody procedures were maintained, as documented in **Appendix B**.

A duplicate sample identified as 07960-Dup1 was collected from 07960-MW31 within 5 minutes of 07960-MW31 groundwater sample collection. A duplicate sample identified as 07960-Dup2 was collected from 07960-MW12 within 5 minutes of 07960-MW12 groundwater sample collection. A duplicate sample identified as 07960-Dup 3 was collected from 07960-MW3 within 5 minutes of 07960-MW3 groundwater sample collection. Duplicate samples were assigned a unique identification name with no time listed on the chain of custody to avoid potential laboratory analytical bias. The duplicate samples were identified in the field book. Three field blanks were also collected, one each day, during water sampling activities for quality assurance and quality control. Four sets of trip blanks, one set for each cooler, were included for quality assurance and quality control.

Sixty-seven water samples (41 monitoring wells, 17 private water supply well samples, three duplicates, four field blanks, and two trip blanks) were analyzed for benzene, toluene, ethylbenzene, total xylenes (collectively referred to as BTEX compounds), naphthalene, 1,2-dichloroethane (1,2-DCA), methyl tertiary butyl ether (MTBE), tertiary amyl alcohol (TAA), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), tertiary butyl formate (TBF), diisopropyl ether (DIPE), ethanol, ethyl tertiary butyl ether (ETBE), and 3,3-dimethyl-1-butanol by Environmental Protection Agency (EPA) Method 8260. Sixty-five water samples (41 monitoring wells, 17 private water supply well samples), three duplicates, and four field blanks) were analyzed for ethylene dibromide (EDB) by EPA Method 8011.

### 3.3.3 Groundwater Analytical Data

Analytical results were compared to the Risk-Based Screening Levels (RBSLs), as defined in Appendix D of SCDHEC, Bureau of Land and Waste Management, UST Management Division, Programmatic QAPP, Revision 3.0, May 2015, Table D1: *RBSLs for Groundwater* and the Action

Levels (ALs), as defined in Appendix D of SCDHEC, Bureau of Land and Waste Management, UST Management Division, Programmatic QAPP, Revision 3.0, May 2015, Table D2: *Action Levels for Groundwater (Oxygenates)*.

Groundwater samples collected from monitoring wells 07960-MW1, 07960-MW2, 07960-MW3, 07960-MW7, 07960-MW12, 07960-MW13, 07960-MW16, 07960-MW22, 07960-MW29, 07960-MW30, 07960-MW31, 07960-RW1, and 07960-TW1 were reported with one or more select dissolved petroleum hydrocarbon constituents above their respective RBSL/AL.

Compounds reported above their respective RBSL/AL included benzene, toluene, ethylbenzene, total xylenes, naphthalene, EDB, 1,2-DCA, and/or TAA .

Dissolved petroleum hydrocarbons were not detected in excess of their respective RBSL/ALs in the water supply wells, field blanks, or trip blanks from this groundwater sampling event. Compound 1,2-DCA was detected in 07960-WSW1 Pre GAC, but not Post GAC.

Historical groundwater analytical data for dissolved petroleum constituents are presented in **Table 3**. Groundwater quality maps based on the November 2015 data are included as **Figure 4A** (for shallow monitoring wells) and **Figure 4B** (private water supply wells and deep telescoping wells). Groundwater Sampling Field Data Sheets have been included in **Appendix B**. The laboratory reports for groundwater samples collected during this assessment are included in **Appendix B**. A quality assurance and quality control evaluation is also included in **Appendix B**.

#### 3.3.4 Aquifer Characterization

Aquifer characteristic determinations were not required for the scope of work outlined in the September 11, 2015 directive.

### 3.4 INVESTIGATIVE DERIVED WASTE

Investigative derived waste (IDW) generated during these activities was placed in 55-gallon drums for disposal by a licensed facility. A copy of the disposal manifest is included as **Appendix G**.

## **4.0 SUMMARY CONCLUSIONS AND RECOMMENDATIONS**

### **4.1 SUMMARY**

- Forty-one monitoring wells (07960-MW1 through 07960-MW31, 07960-TW1 through 07960-TW9, and 07960-RW1) were gauged for depths to groundwater and total well depths on November 9, 2015.
- Forty-one monitoring wells (07960-MW1 through 07960-MW31, 07960-TW1 through 07960-TW9, and 07960-RW1) were purged and sampled between November 9 and 12, 2015.
- Groundwater samples collected from monitoring wells 07960-MW1, 07960-MW2, 07960-MW3, 07960-MW7, 07960-MW12, 07960-MW13, 07960-MW16, 07960-MW22, 07960-MW29, 07960-MW30, 07960-MW31, 07960-RW1, and 07960-TW1 were reported with one or more select dissolved petroleum hydrocarbon constituents above their respective RBSL/AL.
- Seventeen water supply well samples (07960-WSW1 Pre GAC, 07960-WSW1 Post GAC, 07960-WSW2, 07960-WSW3, 07960-WSW4, 07960-WSW5, 07960-WSW6, 07960-WSW7, 07960-WSW8 Pre GAC, 07960-WSW8 Post GAC, 07960-WSW9, 07960-WSW10, 07960-WSW11, 07960-WSW12, 07960-WSW13, 07960-WSW14, and 07960-WSW15) were purged and sampled on November 10, 2015.
- There was no free product observed in the wells gauged on November 10, 2015.

### **4.2 CONCLUSIONS**

- Groundwater flow direction beneath the site was generally toward the northwest in the northern portion of the site, and to the south in the central portion of the site. Groundwater mounds with radial groundwater flow are located near 07960-MW1 and 07960-MW17. A groundwater low is located near 07960-MW8.
- The presence of benzene, 1,2-DCA, and TAA in excess of RBSL/ALs in 07960-TW1 indicates that the vertical definition of the dissolved petroleum hydrocarbon plume has not been defined in that area.
- Compound 1,2-DCA was detected in 07960-WSW1 Pre GAC, but not Post GAC indicating that the GAC unit is effective in removing dissolved petroleum hydrocarbons from this well.

### **4.3 RECOMMENDATIONS**

- ECS recommends conducting a 96-hour AFVR event targeting 07960-MW22, which has the highest concentration of dissolved petroleum hydrocarbons.
- ECS recommends the installation of an additional telescoping well near 07960-TW1 to define the vertical extent of the dissolved petroleum hydrocarbon plume.

## 5.0 LIMITATIONS

This report has been prepared for the exclusive use of Wilkerson Fuel Company for specific application to the referenced site in Edgefield County, South Carolina. The assessment was conducted based on the scope of work and level of effort desired by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

Certain data contained in this report were not obtained under the supervision of ECS. Although the accuracy of these data cannot be verified, for the purposes of this report, ECS assumes that they are correct.

### 5.1 DATA VERIFICATION

The Project Verifier/Quality Assurance Manager has reviewed this report and provided any additional comments if applicable in **Appendix K**.

## **TABLES**

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**TABLE 2  
GROUNDWATER ELEVATION DATA  
378 TRUCK STOP**

| <b>Well ID</b> | <b>Date Measured</b> | <b>Top of Casing Elevation (ft)</b> | <b>Depth to Free Product (ft)</b> | <b>Depth to Water (ft)</b> | <b>Free Product Thickness (ft)</b> | <b>Ground-water Elevation (ft)</b> |
|----------------|----------------------|-------------------------------------|-----------------------------------|----------------------------|------------------------------------|------------------------------------|
| 07960-MW1      | 05/25/10             | 101.85                              | 15.33                             | 15.37                      | 0.04                               | 86.51                              |
|                | 10/18/10             | 101.98                              | 26.50                             | 26.54                      | 0.04                               | 75.47                              |
|                | 04/19/11             |                                     | --                                | 21.70                      | --                                 | 80.28                              |
|                | 08/29/11             |                                     | --                                | 31.17                      | --                                 | 70.81                              |
|                | 02/12/13             |                                     | 28.12                             | 28.21                      | 0.09                               | 73.84                              |
|                | 09/30/13             |                                     | 23.10                             | 23.14                      | 0.04                               | 78.87                              |
|                | 07/28/14             |                                     | --                                | 23.95                      | --                                 | 78.03                              |
|                | 11/09/15             |                                     | --                                | 13.52                      | --                                 | 88.46                              |
| 07960-MW2      | 05/25/10             |                                     | 101.02                            | --                         | 16.82                              | --                                 |
|                | 10/18/10             | 100.99                              | --                                | 27.10                      | --                                 | 73.89                              |
|                | 04/19/11             |                                     | --                                | 23.34                      | --                                 | 77.68                              |
|                | 08/29/11             |                                     | --                                | 30.91                      | --                                 | 70.08                              |
|                | 02/12/13             |                                     | --                                | 31.33                      | --                                 | 69.66                              |
|                | 09/30/13             |                                     | --                                | 24.02                      | --                                 | 76.97                              |
|                | 07/28/14             |                                     | --                                | 24.39                      | --                                 | 76.60                              |
|                | 11/09/15             |                                     | --                                | 19.68                      | --                                 | 81.31                              |
| 07960-MW3      | 05/25/10             |                                     | 101.46                            | --                         | 17.28                              | --                                 |
|                | 10/18/10             | 101.54                              | --                                | 27.58                      | --                                 | 73.96                              |
|                | 04/19/11             |                                     | --                                | 23.78                      | --                                 | 77.76                              |
|                | 08/29/11             |                                     | --                                | 31.38                      | --                                 | 70.16                              |
|                | 02/12/13             |                                     | --                                | 31.79                      | --                                 | 69.75                              |
|                | 09/30/13             |                                     | --                                | 24.51                      | --                                 | 77.03                              |
|                | 07/28/14             |                                     | --                                | 24.74                      | --                                 | 76.80                              |
|                | 11/09/15             |                                     | --                                | 20.69                      | --                                 | 80.85                              |
| 07960-MW4      | 05/25/10             |                                     | 100.50                            | --                         | 16.35                              | --                                 |
|                | 10/18/10             | 100.48                              | --                                | 26.20                      | --                                 | 74.28                              |
|                | 04/19/11             |                                     | --                                | 22.12                      | --                                 | 78.36                              |
|                | 08/29/11             |                                     | --                                | 29.92                      | --                                 | 70.56                              |
|                | 02/12/13             |                                     | --                                | 30.00                      | --                                 | 70.48                              |
|                | 09/30/13             |                                     | --                                | 23.09                      | --                                 | 77.39                              |
|                | 07/28/14             |                                     | --                                | 23.10                      | --                                 | 77.38                              |
|                | 11/09/15             |                                     | --                                | 18.96                      | --                                 | 81.52                              |
| 07960-MW5      | 05/25/10             |                                     | 104.21                            | --                         | 27.30                              | --                                 |
|                | 10/18/10             | 104.18                              | --                                | 30.24                      | --                                 | 73.94                              |
|                | 04/19/11             |                                     | --                                | 27.63                      | --                                 | 76.55                              |
|                | 08/29/11             |                                     | --                                | 34.18                      | --                                 | 70.00                              |
|                | 02/12/13             |                                     | --                                | 36.02                      | --                                 | 68.16                              |
|                | 09/30/13             |                                     | --                                | 27.51                      | --                                 | 76.67                              |
|                | 07/28/14             |                                     | --                                | 27.01                      | --                                 | 77.17                              |
|                | 11/09/15             |                                     | --                                | 23.98                      | --                                 | 80.20                              |



**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**378 TRUCK STOP**

| Well ID    | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Water (ft) | Free Product Thickness (ft) | Ground-water Elevation (ft) |
|------------|---------------|------------------------------|----------------------------|---------------------|-----------------------------|-----------------------------|
| 07960-MW6  | 10/18/10      | 102.25                       | --                         | 28.01               | --                          | 74.24                       |
|            | 04/19/11      |                              | --                         | 23.06               | --                          | 79.19                       |
|            | 08/29/11      |                              | --                         | 32.01               | --                          | 70.24                       |
|            | 02/12/13      |                              | --                         | 30.98               | --                          | 71.27                       |
|            | 09/30/13      |                              | --                         | 24.52               | --                          | 77.73                       |
|            | 07/28/14      |                              | --                         | 25.29               | --                          | 76.96                       |
|            | 11/09/15      |                              | --                         | 19.73               | --                          | 82.52                       |
| 07960-MW7  | 10/18/10      | 99.72                        | --                         | 25.10               | --                          | 74.62                       |
|            | 04/19/11      |                              | --                         | 21.04               | --                          | 78.68                       |
|            | 08/29/11      |                              | --                         | 25.83               | --                          | 73.89                       |
|            | 02/12/13      |                              | --                         | 28.60               | --                          | 71.12                       |
|            | 09/30/13      |                              | --                         | 20.10               | --                          | 79.62                       |
|            | 07/28/14      |                              | --                         | 19.89               | --                          | 79.83                       |
|            | 11/09/15      |                              | --                         | 17.38               | --                          | 82.34                       |
| 07960-MW8  | 10/18/10      | 99.92                        | --                         | 25.45               | --                          | 74.47                       |
|            | 04/19/11      |                              | --                         | 22.51               | --                          | 77.41                       |
|            | 08/29/11      |                              | --                         | 28.62               | --                          | 71.30                       |
|            | 02/12/13      |                              | --                         | 29.52               | --                          | 70.40                       |
|            | 09/30/13      |                              | --                         | 24.74               | --                          | 75.18                       |
|            | 07/28/14      |                              | --                         | 23.80               | --                          | 76.12                       |
|            | 11/09/15      |                              | --                         | 27.76               | --                          | 72.16                       |
| 07960-MW9  | 10/18/10      | 94.83                        | --                         | 30.31               | --                          | 64.52                       |
|            | 04/19/11      |                              | --                         | 24.13               | --                          | 70.70                       |
|            | 08/29/11      |                              | --                         | 28.08               | --                          | 66.75                       |
|            | 02/12/13      |                              | --                         | 30.51               | --                          | 64.32                       |
|            | 09/30/13      |                              | --                         | 23.00               | --                          | 71.83                       |
|            | 07/28/14      |                              | --                         | 22.60               | --                          | 72.23                       |
|            | 11/09/15      |                              | --                         | 21.32               | --                          | 73.51                       |
| 07960-MW10 | 10/18/10      | 99.12                        | --                         | 29.73               | --                          | 69.39                       |
|            | 04/19/11      |                              | --                         | 26.18               | --                          | 72.94                       |
|            | 08/29/11      |                              | --                         | 31.51               | --                          | 67.61                       |
|            | 02/12/13      |                              | --                         | 27.25               | --                          | 71.87                       |
|            | 09/30/13      |                              | --                         | 25.38               | --                          | 73.74                       |
|            | 07/28/14      |                              | --                         | 25.27               | --                          | 73.85                       |
|            | 11/09/15      |                              | --                         | 18.76               | --                          | 80.36                       |

**TABLE 2  
GROUNDWATER ELEVATION DATA  
378 TRUCK STOP**

| <b>Well ID</b> | <b>Date Measured</b> | <b>Top of Casing Elevation (ft)</b> | <b>Depth to Free Product (ft)</b> | <b>Depth to Water (ft)</b> | <b>Free Product Thickness (ft)</b> | <b>Ground-water Elevation (ft)</b> |
|----------------|----------------------|-------------------------------------|-----------------------------------|----------------------------|------------------------------------|------------------------------------|
| 07960-MW11     | 10/18/10             | 102.61                              | --                                | 28.75                      | --                                 | 73.86                              |
|                | 04/19/11             |                                     | --                                | 25.59                      | --                                 | 77.02                              |
|                | 08/29/11             |                                     | --                                | 32.42                      | --                                 | 70.19                              |
|                | 02/12/13             |                                     | --                                | 33.99                      | --                                 | 68.62                              |
|                | 09/30/13             |                                     | --                                | 25.10                      | --                                 | 77.51                              |
|                | 07/28/14             |                                     | --                                | 25.23                      | --                                 | 77.38                              |
|                | 11/09/15             |                                     | --                                | 20.90                      | --                                 | 81.71                              |
| 07960-MW12     | 10/18/10             | 103.46                              | --                                | 29.63                      | --                                 | 73.83                              |
|                | 04/19/11             |                                     | --                                | 26.11                      | --                                 | 77.35                              |
|                | 08/29/11             |                                     | --                                | 33.56                      | --                                 | 69.90                              |
|                | 02/12/13             |                                     | --                                | Dry                        | --                                 | Dry                                |
|                | 09/30/13             |                                     | --                                | 26.25                      | --                                 | 77.21                              |
|                | 07/28/14             |                                     | --                                | 24.89                      | --                                 | 78.57                              |
|                | 11/09/15             |                                     | --                                | 24.79                      | --                                 | 78.67                              |
| 07960-MW13     | 10/18/10             | 101.48                              | --                                | 27.63                      | --                                 | 73.85                              |
|                | 04/19/11             |                                     | --                                | 23.50                      | --                                 | 77.98                              |
|                | 08/29/11             |                                     | --                                | 31.34                      | --                                 | 70.14                              |
|                | 02/12/13             |                                     | --                                | 31.69                      | --                                 | 69.79                              |
|                | 09/30/13             |                                     | --                                | 24.74                      | --                                 | 76.74                              |
|                | 07/28/14             |                                     | --                                | 22.95                      | --                                 | 78.53                              |
|                | 11/09/15             |                                     | --                                | 22.25                      | --                                 | 79.23                              |
| 07960-MW14     | 10/18/10             | 103.48                              | --                                | 29.99                      | --                                 | 73.49                              |
|                | 04/19/11             |                                     | --                                | 28.52                      | --                                 | 74.96                              |
|                | 08/29/11             |                                     | --                                | 34.59                      | --                                 | 68.89                              |
|                | 02/12/13             |                                     | --                                | 35.07                      | --                                 | 68.41                              |
|                | 09/30/13             |                                     | --                                | 27.01                      | --                                 | 76.47                              |
|                | 07/28/14             |                                     | --                                | 28.00                      | --                                 | 75.48                              |
|                | 11/09/15             |                                     | --                                | 22.98                      | --                                 | 80.50                              |
| 07960-MW15     | 10/18/10             | 103.16                              | --                                | 30.32                      | --                                 | 72.84                              |
|                | 04/19/11             |                                     | --                                | 25.18                      | --                                 | 77.98                              |
|                | 08/29/11             |                                     | --                                | 33.50                      | --                                 | 69.66                              |
|                | 02/12/13             |                                     | --                                | 33.42                      | --                                 | 69.74                              |
|                | 09/30/13             |                                     | --                                | 26.85                      | --                                 | 76.31                              |
|                | 07/28/14             |                                     | --                                | 27.60                      | --                                 | 75.56                              |
|                | 11/09/15             |                                     | --                                | 22.64                      | --                                 | 80.52                              |

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**378 TRUCK STOP**

| Well ID     | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Water (ft) | Free Product Thickness (ft) | Ground-water Elevation (ft) |
|-------------|---------------|------------------------------|----------------------------|---------------------|-----------------------------|-----------------------------|
| 07960-MW-16 | 10/18/10      | 101.32                       | --                         | 30.79               | --                          | 70.53                       |
|             | 04/19/11      |                              | --                         | 24.59               | --                          | 76.73                       |
|             | 08/29/11      |                              | --                         | 32.68               | --                          | 68.64                       |
|             | 02/12/13      |                              | --                         | 33.56               | --                          | 67.76                       |
|             | 09/30/13      |                              | --                         | 25.31               | --                          | 76.01                       |
|             | 07/28/14      |                              | --                         | 25.31               | --                          | 76.01                       |
|             | 11/09/15      |                              | --                         | 24.39               | --                          | 76.93                       |
| 07960-MW17  | 10/18/10      | 98.40                        | --                         | 23.74               | --                          | 74.66                       |
|             | 04/19/11      |                              | --                         | 18.20               | --                          | 80.20                       |
|             | 08/29/11      |                              | --                         | 28.55               | --                          | 69.85                       |
|             | 02/12/13      |                              | --                         | 19.25               | --                          | 79.15                       |
|             | 09/30/13      |                              | --                         | 20.20               | --                          | 78.20                       |
|             | 07/28/14      |                              | --                         | 21.00               | --                          | 77.40                       |
|             | 11/09/15      |                              | --                         | 9.15                | --                          | 89.25                       |
| 07960-MW18  | 10/18/10      | 95.05                        | --                         | 22.02               | --                          | 73.03                       |
|             | 04/19/11      |                              | --                         | 15.71               | --                          | 79.34                       |
|             | 08/29/11      |                              | --                         | 23.00               | --                          | 72.05                       |
|             | 02/12/13      |                              | --                         | 23.23               | --                          | 71.82                       |
|             | 09/30/13      |                              | --                         | 18.25               | --                          | 76.80                       |
|             | 07/28/14      |                              | --                         | 18.35               | --                          | 76.70                       |
|             | 11/09/15      |                              | --                         | 12.6                | --                          | 82.45                       |
| 07960-MW19  | 10/18/10      | 101.07                       | --                         | 27.62               | --                          | 73.45                       |
|             | 04/19/11      |                              | --                         | 21.63               | --                          | 79.44                       |
|             | 08/29/11      |                              | --                         | 30.56               | --                          | 70.51                       |
|             | 02/12/13      |                              | --                         | 32.05               | --                          | 69.02                       |
|             | 09/30/13      |                              | --                         | 24.35               | --                          | 76.72                       |
|             | 07/28/14      |                              | --                         | 25.64               | --                          | 75.43                       |
|             | 11/09/15      |                              | --                         | 17.16               | --                          | 83.91                       |
| 07960-MW20  | 12/06/10      | 110.52                       | --                         | 41.77               | --                          | 68.75                       |
|             | 04/19/11      |                              | --                         | 37.72               | --                          | 72.80                       |
|             | 08/29/11      |                              | --                         | 41.27               | --                          | 69.25                       |
|             | 02/12/13      |                              | --                         | Dry                 | --                          | Dry                         |
|             | 09/30/13      |                              | --                         | 35.84               | --                          | 74.68                       |
|             | 07/28/14      |                              | --                         | 31.20               | --                          | 79.32                       |
|             | 11/09/15      |                              | --                         | 34.49               | --                          | 76.03                       |

**TABLE 2  
GROUNDWATER ELEVATION DATA  
378 TRUCK STOP**

| <b>Well ID</b> | <b>Date Measured</b> | <b>Top of Casing Elevation (ft)</b> | <b>Depth to Free Product (ft)</b> | <b>Depth to Water (ft)</b> | <b>Free Product Thickness (ft)</b> | <b>Ground-water Elevation (ft)</b> |
|----------------|----------------------|-------------------------------------|-----------------------------------|----------------------------|------------------------------------|------------------------------------|
| 07960-MW21     | 12/06/10             | 101.70                              | --                                | 32.66                      | --                                 | 69.04                              |
|                | 04/19/11             |                                     | --                                | 24.19                      | --                                 | 77.51                              |
|                | 08/29/11             |                                     | --                                | 38.77                      | --                                 | 62.93                              |
|                | 02/12/13             |                                     | --                                | 32.00                      | --                                 | 69.70                              |
|                | 09/30/13             |                                     | --                                | 22.41                      | --                                 | 79.29                              |
|                | 07/28/14             |                                     | --                                | 24.15                      | --                                 | 77.55                              |
|                | 11/09/15             |                                     | --                                | 20.05                      | --                                 | 81.65                              |
| 07960-MW22     | 12/06/10             | 105.13                              | --                                | 34.95                      | --                                 | 70.18                              |
|                | 04/19/11             |                                     | --                                | 28.56                      | --                                 | 76.57                              |
|                | 08/29/11             |                                     | --                                | 35.88                      | --                                 | 69.25                              |
|                | 02/12/13             |                                     | --                                | 37.98                      | --                                 | 67.15                              |
|                | 09/30/13             |                                     | --                                | 29.18                      | --                                 | 75.95                              |
|                | 07/28/14             |                                     | --                                | 29.30                      | --                                 | 75.83                              |
|                | 11/09/15             |                                     | --                                | 27.40                      | --                                 | 77.73                              |
| 07960-MW23     | 12/06/10             | 100.01                              | --                                | 29.26                      | --                                 | 70.75                              |
|                | 04/19/11             |                                     | --                                | 19.69                      | --                                 | 80.32                              |
|                | 08/29/11             |                                     | --                                | 29.01                      | --                                 | 71.00                              |
|                | 02/12/13             |                                     | --                                | 26.28                      | --                                 | 73.73                              |
|                | 09/30/13             |                                     | --                                | 22.83                      | --                                 | 77.18                              |
|                | 07/28/14             |                                     | --                                | 24.82                      | --                                 | 75.19                              |
|                | 11/09/15             |                                     | --                                | 14.34                      | --                                 | 85.67                              |
| 07960-MW24     | 12/06/10             | 99.08                               | --                                | 32.25                      | --                                 | 66.83                              |
|                | 04/19/11             |                                     | --                                | 25.58                      | --                                 | 73.50                              |
|                | 08/29/11             |                                     | --                                | 31.62                      | --                                 | 67.46                              |
|                | 02/12/13             |                                     | --                                | 33.17                      | --                                 | 65.91                              |
|                | 09/30/13             |                                     | --                                | 26.53                      | --                                 | 72.55                              |
|                | 07/28/14             |                                     | --                                | 26.45                      | --                                 | 72.63                              |
|                | 11/09/15             |                                     | --                                | 22.15                      | --                                 | 76.93                              |
| 07960-MW25     | 12/06/10             | 101.54                              | --                                | 32.00                      | --                                 | 69.54                              |
|                | 04/19/11             |                                     | --                                | 23.44                      | --                                 | 78.10                              |
|                | 08/29/11             |                                     | --                                | 32.18                      | --                                 | 69.36                              |
|                | 02/12/13             |                                     | --                                | 33.28                      | --                                 | 68.26                              |
|                | 09/30/13             |                                     | --                                | 24.58                      | --                                 | 76.96                              |
|                | 07/28/14             |                                     | --                                | 25.45                      | --                                 | 76.09                              |
|                | 11/09/15             |                                     | --                                | 19                         | --                                 | 82.54                              |

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**378 TRUCK STOP**

| Well ID    | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Water (ft) | Free Product Thickness (ft) | Ground-water Elevation (ft) |
|------------|---------------|------------------------------|----------------------------|---------------------|-----------------------------|-----------------------------|
| 07960-MW26 | 12/06/10      | 97.25                        | --                         | 29.08               | --                          | 68.17                       |
|            | 04/19/11      |                              | --                         | 21.07               | --                          | 76.18                       |
|            | 08/29/11      |                              | --                         | 29.08               | --                          | 68.17                       |
|            | 02/12/13      |                              | --                         | 30.29               | --                          | 66.96                       |
|            | 09/30/13      |                              | --                         | 21.84               | --                          | 75.41                       |
|            | 07/28/14      |                              | --                         | 18.25               | --                          | 79.00                       |
|            | 11/09/15      |                              | --                         | 21.6                | --                          | 75.65                       |
| 07960-MW27 | 12/06/10      | 97.20                        | --                         | 28.48               | --                          | 68.72                       |
|            | 04/19/11      |                              | --                         | 24.42               | --                          | 72.78                       |
|            | 08/29/11      |                              | --                         | 29.24               | --                          | 67.96                       |
|            | 02/12/13      |                              | --                         | 30.27               | --                          | 66.93                       |
|            | 09/30/13      |                              | --                         | 22.87               | --                          | 74.33                       |
|            | 07/28/14      |                              | --                         | 22.75               | --                          | 74.45                       |
|            | 11/09/15      |                              | --                         | 22.1                | --                          | 75.10                       |
| 07960-MW28 | 12/06/10      | 101.29                       | --                         | 33.39               | --                          | 67.90                       |
|            | 04/19/11      |                              | --                         | 20.91               | --                          | 80.38                       |
|            | 08/29/11      |                              | --                         | 29.92               | --                          | 71.37                       |
|            | 02/12/13      |                              | --                         | 28.86               | --                          | 72.43                       |
|            | 09/30/13      |                              | --                         | 24.65               | --                          | 76.64                       |
|            | 07/28/14      |                              | --                         | 22.05               | --                          | 79.24                       |
|            | 11/09/15      |                              | --                         | 20.75               | --                          | 80.54                       |
| 07960-MW29 | 02/12/13      | 101.08                       | --                         | 32.04               | --                          | 69.04                       |
|            | 09/30/13      |                              | --                         | 23.99               | --                          | 77.09                       |
|            | 07/28/14      |                              | --                         | 23.25               | --                          | 77.83                       |
|            | 11/09/15      |                              | --                         | 21.70               | --                          | 79.38                       |
| 07960-MW30 | 02/12/13      | 104.62                       | --                         | 36.20               | --                          | 68.42                       |
|            | 09/30/13      |                              | --                         | 28.51               | --                          | 76.11                       |
|            | 07/28/14      |                              | --                         | 26.14               | --                          | 78.48                       |
|            | 11/09/15      |                              | --                         | 26.60               | --                          | 78.02                       |
| 07960-MW31 | 02/12/13      | 103.20                       | --                         | 35.31               | --                          | 67.89                       |
|            | 09/30/13      |                              | --                         | 27.30               | --                          | 75.90                       |
|            | 07/28/14      |                              | --                         | 24.80               | --                          | 78.40                       |
|            | 11/09/15      |                              | --                         | 26.56               | --                          | 76.64                       |

**TABLE 2  
GROUNDWATER ELEVATION DATA  
378 TRUCK STOP**

| <b>Well ID</b> | <b>Date Measured</b> | <b>Top of Casing Elevation (ft)</b> | <b>Depth to Free Product (ft)</b> | <b>Depth to Water (ft)</b> | <b>Free Product Thickness (ft)</b> | <b>Ground-water Elevation (ft)</b> |
|----------------|----------------------|-------------------------------------|-----------------------------------|----------------------------|------------------------------------|------------------------------------|
| 07960-TW1      | 10/18/10             | 101.83                              | --                                | 28.44                      | --                                 | 73.39                              |
|                | 04/19/11             |                                     | --                                | 25.53                      | --                                 | 76.30                              |
|                | 08/29/11             |                                     | --                                | 32.26                      | --                                 | 69.57                              |
|                | 02/12/13             |                                     | --                                | 33.22                      | --                                 | 68.61                              |
|                | 09/30/13             |                                     | --                                | 25.66                      | --                                 | 76.17                              |
|                | 07/28/14             |                                     | --                                | 25.55                      | --                                 | 76.28                              |
|                | 11/09/15             |                                     | --                                | 21.02                      | --                                 | 80.81                              |
| 07960-TW2      | 10/18/10             | 101.97                              | --                                | 29.57                      | --                                 | 72.40                              |
|                | 04/19/11             |                                     | --                                | 23.83                      | --                                 | 78.14                              |
|                | 08/29/11             |                                     | --                                | 31.62                      | --                                 | 70.35                              |
|                | 02/12/13             |                                     | --                                | 33.22                      | --                                 | 68.75                              |
|                | 09/30/13             |                                     | --                                | 24.27                      | --                                 | 77.70                              |
|                | 07/28/14             |                                     | --                                | 24.59                      | --                                 | 77.38                              |
|                | 11/09/15             |                                     | --                                | 24.67                      | --                                 | 77.30                              |
| 07960-TW3      | 10/18/10             | 95.33                               | --                                | 25.39                      | --                                 | 69.94                              |
|                | 04/19/11             |                                     | --                                | 23.83                      | --                                 | 71.50                              |
|                | 08/29/11             |                                     | --                                | 27.78                      | --                                 | 67.55                              |
|                | 02/12/13             |                                     | --                                | 29.97                      | --                                 | 65.36                              |
|                | 09/30/13             |                                     | --                                | 22.78                      | --                                 | 72.55                              |
|                | 07/28/14             |                                     | --                                | 22.50                      | --                                 | 72.83                              |
|                | 11/09/15             |                                     | --                                | 20.77                      | --                                 | 74.56                              |
| 07960-TW4      | 10/18/10             | 99.23                               | --                                | 43.13                      | --                                 | 56.10                              |
|                | 04/19/11             |                                     | --                                | 27.11                      | --                                 | 72.12                              |
|                | 08/29/11             |                                     | --                                | 31.09                      | --                                 | 68.14                              |
|                | 02/12/13             |                                     | --                                | 32.81                      | --                                 | 66.42                              |
|                | 09/30/13             |                                     | --                                | 23.45                      | --                                 | 75.78                              |
|                | 07/28/14             |                                     | --                                | 22.19                      | --                                 | 77.04                              |
|                | 11/09/15             |                                     | --                                | 13.39                      | --                                 | 85.84                              |
| 07960-TW5      | 10/18/10             | 103.62                              | --                                | 29.69                      | --                                 | 73.93                              |
|                | 04/19/11             |                                     | --                                | 25.96                      | --                                 | 77.66                              |
|                | 08/29/11             |                                     | --                                | 33.09                      | --                                 | 70.53                              |
|                | 02/12/13             |                                     | --                                | 34.60                      | --                                 | 69.02                              |
|                | 09/30/13             |                                     | --                                | 26.42                      | --                                 | 77.20                              |
|                | 07/28/14             |                                     | --                                | 26.91                      | --                                 | 76.71                              |
|                | 11/09/15             |                                     | --                                | 25.5                       | --                                 | 78.12                              |
| 07960-TW6      | 10/18/10             | 101.29                              | --                                | 31.22                      | --                                 | 70.07                              |
|                | 04/19/11             |                                     | --                                | 25.25                      | --                                 | 76.04                              |
|                | 08/29/11             |                                     | --                                | 33.00                      | --                                 | 68.29                              |
|                | 02/12/13             |                                     | --                                | 33.80                      | --                                 | 67.49                              |
|                | 09/30/13             |                                     | --                                | 26.72                      | --                                 | 74.57                              |
|                | 07/28/14             |                                     | --                                | 27.55                      | --                                 | 73.74                              |
|                | 11/09/15             |                                     | --                                | 24.16                      | --                                 | 77.13                              |

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**378 TRUCK STOP**

| Well ID   | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Water (ft) | Free Product Thickness (ft) | Ground-water Elevation (ft) |
|-----------|---------------|------------------------------|----------------------------|---------------------|-----------------------------|-----------------------------|
| 07960-TW7 | 10/18/10      | 98.13                        | --                         | 50.90               | --                          | 47.23                       |
|           | 04/19/11      |                              | --                         | 16.83               | --                          | 81.30                       |
|           | 08/29/11      |                              | --                         | 36.98               | --                          | 61.15                       |
|           | 02/12/13      |                              | --                         | 37.54               | --                          | 60.59                       |
|           | 09/30/13      |                              | --                         | 19.20               | --                          | 78.93                       |
|           | 07/28/14      |                              | --                         | 15.79               | --                          | 82.34                       |
|           | 11/09/15      |                              | --                         | 20.35               | --                          | 77.78                       |
| 07960-TW8 | 10/18/10      | 101.03                       | --                         | 28.18               | --                          | 72.85                       |
|           | 04/19/11      |                              | --                         | 22.19               | --                          | 78.84                       |
|           | 08/29/11      |                              | --                         | 41.54               | --                          | 59.49                       |
|           | 02/12/13      |                              | --                         | 42.13               | --                          | 58.90                       |
|           | 09/30/13      |                              | --                         | 32.10               | --                          | 68.93                       |
|           | 07/28/14      |                              | --                         | 25.57               | --                          | 75.46                       |
|           | 11/09/15      |                              | --                         | 20.06               | --                          | 80.97                       |
| 07960-TW9 | 12/06/10      | 96.92                        | --                         | 28.96               | --                          | 67.96                       |
|           | 04/19/11      |                              | --                         | 21.14               | --                          | 75.78                       |
|           | 08/29/11      |                              | --                         | 28.94               | --                          | 67.98                       |
|           | 02/12/13      |                              | --                         | 30.22               | --                          | 66.70                       |
|           | 09/30/13      |                              | --                         | 22.59               | --                          | 74.33                       |
|           | 07/28/14      |                              | --                         | 23.95               | --                          | 72.97                       |
|           | 11/09/15      |                              | --                         | 20.38               | --                          | 76.54                       |
| 07960-RW1 | 11/09/15      | 101.97                       | --                         | 5.90                | --                          | 96.07                       |

Notes:

Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.

Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.

May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.

Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.

07960-MW20 installed with a 3 ft stickup riser.

TABLE 3  
GROUNDWATER ANALYTICAL DATA  
378 TRUCK STOP

| Well ID    | Sample Date | Benzene      | Toluene | Ethylbenzene | Total Xylenes | MTBE  | Naphthalene | 1,3-DCA | EDB    | Total Lead          | TAA    | TAME   | TBA    | TBF   | DIPE    | Ethanol           | ETBE   | ETBA   |    |
|------------|-------------|--------------|---------|--------------|---------------|-------|-------------|---------|--------|---------------------|--------|--------|--------|-------|---------|-------------------|--------|--------|----|
| 0790 - MW1 | 05/25/10    | 5            | 1,000   | 700          | 10,000        | 40    | 25          | 5       | 0.05   | 15                  | 240    | 128    | 1,400  | NA    | 150     | 10,000            | 47     | NA     |    |
|            | 10/18/10    | Free Product |         |              |               |       |             |         |        |                     |        |        |        |       |         |                   |        |        |    |
|            | 04/19/11    | 456          | 210     | 1,010        | 4,700         | <50.0 | 377         | <50.0   | 1.3    | NR                  | <1,000 | <100   | <1,000 | <500  | <50.0   | <2,000            | <100   | <1,000 |    |
|            | 08/29/11    | 1,130        | 317     | 941          | 3,779         | <50   | 235         | 82      | 1.5    | NR                  | 2,160  | <100   | <1,000 | <500  | <50.0   | <2,000            | <100   | <1,000 |    |
|            | 02/13/13    | Free Product |         |              |               |       |             |         |        |                     |        |        |        |       |         |                   |        |        |    |
|            | 09/30/13    | Free Product |         |              |               |       |             |         |        |                     |        |        |        |       |         |                   |        |        |    |
|            | 07/30/14    | 1,080        | 830     | 1,680        | 7,440         | <50.0 | 619         | 78.0    | 3.6    | NR                  | 2,500  | <100   | <1,000 | <500  | <50.0   | <2,000            | <100   | <1,000 |    |
|            | 11/12/15    | 568          | 513     | 521          | 3670          | <50.0 | 199         | 28.8 J  | 2.3    | NR                  | 1540   | <100   | <1,000 | <500  | <50.0   | <2,000            | <100   | <1,000 |    |
|            | 05/25/10    | 109          | <5.0    | 114          | 312           | <5.0  | 50.6        | NR      | 0.035  | NR                  | NR     | NR     | NR     | NR    | NR      | NR                | NR     | NR     | NR |
|            | 10/19/10    | 1.7 J        | <5.0    | <5.0         | 2.9 J         | <5.0  | <5.0        | 24.8    | <0.020 | NR                  | <100   | <10.0  | 254    | <50.0 | <5.0    | <200 <sup>2</sup> | <10.0  | <100   |    |
| 04/20/11   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | 28.5        | <0.020  | NR     | 96.2 J              | <10.0  | 336    | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 08/29/11   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | 26.1        | <0.019  | NR     | 87.1 J              | <10.0  | 386    | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 02/13/13   | 6.7         | <5.0         | 3.0     | 13.1         | <5.0          | <5.0  | 28.8        | <0.020  | NR     | 132                 | <10.0  | 307    | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 10/01/13   | <5.0        | <5.0         | <5.0    | <10.0        | <5.0          | <5.0  | 26.7        | <0.020  | NR     | 202                 | <10.0  | 422    | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 07/30/14   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | 22.1        | <0.020  | NR     | 140                 | <10.0  | 149    | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 11/11/15   | 10.8        | <5.0         | 11.5    | 12.1         | <5.0          | 21.3  | 21.3        | <0.020  | NR     | 214                 | <10.0  | 350    | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 05/25/10   | 239         | 139          | 815     | 4,800        | <5.0          | 385   | 126         | 0.099   | 28.9   | NR                  | NR     | NR     | NR     | NR    | NR      | NR                | NR     | NR     |    |
| 10/18/10   | 6,820       | 343          | 981     | 6,260        | 3.4 J         | 449   | 561         | 0.31    | NR     | 12,900 <sup>1</sup> | <10.0  | 773    | <50.0  | 55.7  | <200    | <10.0             | <100   |        |    |
| 04/19/11   | 7,300       | 253          | 921     | 5,000        | <250          | 342   | 542         | 0.30    | NR     | 13,800              | <500   | <5,000 | <2,500 | <250  | <10,000 | <500              | <5,000 |        |    |
| 08/29/11   | 7,090       | 372          | 1,170   | 6,710        | <250          | 371   | 438         | 0.033   | NR     | 10,300              | <500   | <5,000 | <2,500 | <250  | <10,000 | <500              | <5,000 |        |    |
| 02/13/13   | 6,860       | 356          | 660     | 3,256        | <250          | 349   | 586         | 0.40    | NR     | 13,200              | <500   | <5,000 | <2,500 | <250  | <10,000 | <500              | <5,000 |        |    |
| 10/01/13   | 8,400       | 784          | 1,540   | 6,080        | <250          | 498   | 568         | 0.80    | NR     | 15,500              | <500   | <5,000 | <2,500 | <250  | <10,000 | <500              | <5,000 |        |    |
| 07/29/14   | 6,960       | 684          | 1,180   | 5,330        | <250          | 469   | 521         | 1.50    | NR     | 10,600              | <500   | <5,000 | <2,500 | <250  | <10,000 | <500              | <5,000 |        |    |
| 11/12/15   | 6,710       | 106 J        | 445     | 2,770        | <250          | 360   | 511         | <0.019  | NR     | 12,200              | <500   | <5,000 | <2,500 | <250  | <10,000 | <500              | <5,000 |        |    |
| 05/25/10   | 2.9 J       | <5.0         | 1.4 J   | <15.0        | <5.0          | 12.7  | 3.3 J       | <0.020  | 62.8   | NR                  | NR     | NR     | NR     | NR    | NR      | NR                | NR     | NR     |    |
| 10/18/10   | 5.7         | <5.0         | <5.0    | <15.0        | 19.1 J        | 3.7 J | 4.2 J       | <0.020  | NR     | 199                 | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 04/20/11   | 16.4        | <5.0         | 6.0     | 14.0         | <5.0          | 9.3   | <5.0        | <0.020  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 08/29/11   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | <5.0        | <0.020  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 02/13/13   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | <5.0        | <0.021  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 10/01/13   | <5.0        | <5.0         | <5.0    | <10.0        | <5.0          | <5.0  | <5.0        | <0.020  | NR     | 141                 | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 07/30/14   | 11.4        | <5.0         | 2.8 J   | <15.0        | <5.0          | 3.4 J | 2.2 J       | <0.020  | NR     | 115                 | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 11/11/15   | <5.0        | <5.0         | <5.0    | <10.0        | <5.0          | <5.0  | <5.0        | <0.019  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 05/25/10   | 3.6 J       | 1.8 J        | 4.0 J   | 22.3         | <5.0          | <5.0  | 4.8 J       | <0.020  | 11.8   | NR                  | NR     | NR     | NR     | NR    | NR      | NR                | NR     |        |    |
| 10/18/10   | 102         | <5.0         | 4.1 J   | 135.9        | 3.2 J         | 43.5  | 6.6         | <0.020  | NR     | 168                 | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 04/20/11   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | <5.0        | <0.020  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 08/29/11   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | <5.0        | <0.019  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 02/13/13   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | <5.0        | <0.020  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 10/01/13   | <5.0        | <5.0         | <5.0    | <10.0        | <5.0          | <5.0  | <5.0        | <0.020  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 07/30/14   | <5.0        | <5.0         | <5.0    | <15.0        | <5.0          | <5.0  | <5.0        | <0.020  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |
| 11/11/15   | <5.0        | <5.0         | <5.0    | <10.0        | <5.0          | <5.0  | <5.0        | <0.019  | NR     | <100                | <10.0  | <100   | <50.0  | <5.0  | <200    | <10.0             | <100   |        |    |







TABLE 3  
GROUNDWATER ANALYTICAL DATA  
378 TRUCK STOP

| Well ID      | Sample Date | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE  | Naphthalene | 1,1-DCA | EDB    | Total Lead | TAA   | TAME  | TBA   | TBF   | DIPE   | Ethanol | ETBE  | ETBA |
|--------------|-------------|---------|---------|--------------|---------------|-------|-------------|---------|--------|------------|-------|-------|-------|-------|--------|---------|-------|------|
| RBSL/AL      | 5           | 1,000   | 700     | 10,000       | 40            | 25    | 5           | 0.05    | 15     | 240        | 128   | 1,400 | NA    | 150   | 10,000 | 47      | NA    |      |
| 07960 - MW23 | 12/06/10    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <5.0    | <0.020 | <5.0       | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
|              | 04/20/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <5.0    | <0.020 | NR         | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
|              | 08/29/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <5.0    | <0.020 | NR         | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
|              | 02/13/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <5.0    | <0.020 | NR         | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
|              | 07/28/14    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <5.0    | <0.020 | NR         | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
|              | 11/10/15    | <5.0    | <5.0    | <5.0         | <10.0         | <5.0  | <5.0        | <5.0    | <0.020 | NR         | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
| 07960 - MW24 | 12/06/10    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | 6.7         | <0.020  | <5.0   | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 04/19/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | 4.1 J       | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 08/29/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | 2.3 J       | <0.019  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 02/13/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 10/01/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 07/28/14    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
| 07960 - MW25 | 12/06/10    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | <5.0   | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 04/20/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 08/29/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 02/13/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 10/01/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | 136        | <100  | <100  | <100  | <50.0 | <5.0   | <200    | <10.0 | <100 |
|              | 07/28/14    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
| 07960 - MW26 | 12/06/10    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | <5.0   | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 04/19/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 08/29/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.019  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 02/13/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 10/01/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 07/28/14    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
| 07960 - MW27 | 12/06/10    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | 6.4         | <0.020  | <5.0   | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 04/20/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | 2.6 J       | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 08/29/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 02/13/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 10/01/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | 2.3 J       | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 07/30/14    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
| 07960 - MW28 | 12/06/10    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.019  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 04/21/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.019  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 08/29/11    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 02/13/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 10/01/13    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 07/30/14    | <5.0    | <5.0    | <5.0         | <15.0         | <5.0  | <5.0        | <0.020  | NR     | <100       | <100  | <100  | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
| 07960 - MW29 | 12/06/10    | 21.4    | 8.4     | 29.6         | 105.6         | 1.77  | 9.2         | 65.2    | <0.020 | NR         | 4,050 | <100  | 147   | <50.0 | 2.3 J  | <200    | <10.0 | <100 |
|              | 02/13/13    | 65.1    | 16.2    | 54.0         | <5.0          | 10.4  | 28.5        | <0.020  | NR     | 3,620      | <100  | 498   | <50.0 | <5.0  | <200   | <10.0   | <100  |      |
|              | 07/30/14    | 198.0   | 8.4     | 29.6         | 105.6         | 1.77  | 9.2         | 65.2    | <0.020 | NR         | 4,050 | <100  | 147   | <50.0 | 2.3 J  | <200    | <10.0 | <100 |
|              | 11/11/15    | 8.1 J   | <20.0   | <20.0        | <40.0         | <20.0 | <20.0       | 63.8    | <0.020 | NR         | 3,470 | <40.0 | 283 J | <200  | <20.0  | <800    | <40.0 | <400 |







TABLE 3  
GROUNDWATER ANALYTICAL DATA  
378 TRUCK STOP

| Well ID     | Sample Date | Benzene                                  | Toluene | Ethylbenzene | Total Xylenes | MTBE   | Naphthalene | 1,2-DCA | EDB    | Total Lead | TAA   | TAME | TBA    | TBF   | DIPE | Ethanol | ETBE  | ETBA |
|-------------|-------------|--|---------|--------------|---------------|--------|-------------|---------|--------|------------|---|------|--------|-------|------|---------|-------|------|
| RBSL / AL   |             | 5  | 1,000   | 700          | 10,000        | 40     | 25          | 5       | 0.05   | 15         | 240   | 128  | 1,400  | NA    | 150  | 10,000  | 47    | NA   |
| 07960-WSW13 | 10/19/10    | <5.0                                     | <5.0    | <5.0         | <15.0         | 3.2 J  | <5.0        | <5.0    | <0.020 | NR         | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |      |        |       |      |         |       |      |
|             | 04/21/11    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 08/29/11    | <1.0                                     | <1.0    | <1.0         | <3.0          | <1.0   | <1.0        | <1.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 02/13/13    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 09/30/13    | <1.0                                     | <1.0    | <1.0         | <2.0          | <1.0   | <1.0        | <1.0    | <0.020 | NR         | <100  | <100 | 29.6 J | <50.0 | <1.0 | <200    | <10.0 | <100 |
|             | 07/29/14    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
| 07960-WSW14 | 11/10/15    | <5.0                                     | <5.0    | <5.0         | <10.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 10/19/10    | <5.0                                     | <5.0    | <5.0         | <15.0         | 4.0 J  | <5.0        | <5.0    | <0.020 | NR         | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |      |        |       |      |         |       |      |
|             | 04/21/11    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 08/29/11    | <1.0                                     | <1.0    | <1.0         | <3.0          | 1.1    | <1.0        | <1.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 02/13/13    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 09/30/13    | <1.0                                     | <1.0    | <1.0         | <2.0          | <1.0   | <1.0        | <1.0    | <0.020 | NR         | <100  | <100 | 30.7 J | <50.0 | <1.0 | <200    | <10.0 | <100 |
| 07960-WSW15 | 07/29/14    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 11/10/15    | <5.0                                     | <5.0    | <5.0         | <10.0         | <5.0   | <5.0        | <5.0    | <0.019 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 10/19/10    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.019 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 04/21/11    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 08/29/11    | <1.0                                     | <1.0    | <1.0         | <3.0          | <1.0   | <1.0        | <1.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 02/13/13    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
| 07960-WSWX  | 09/30/13    | <1.0                                     | <1.0    | <1.0         | <2.0          | 0.44 J | <1.0        | <1.0    | <0.020 | NR         | <100  | <100 | 30.0 J | <50.0 | <1.0 | <200    | <10.0 | <100 |
|             | 07/29/14    | <5.0                                     | <5.0    | <5.0         | <15.0         | <5.0   | <5.0        | <5.0    | <0.020 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 11/10/15    | <5.0                                     | <5.0    | <5.0         | <10.0         | <5.0   | <5.0        | <5.0    | <0.019 | NR         | <100  | <100 | <100   | <50.0 | <5.0 | <200    | <10.0 | <100 |
|             | 02/13/13    | Well House Secured & Locked with Padlock |         |              |               |        |             |         |        |            |   |      |        |       |      |         |       |      |
| 11/10/15    | Not Sampled |  |         |              |               |        |             |         |        |            |   |      |        |       |      |         |       |      |

Notes: Results reported in µg/L.  
 Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA, ethanol and the oxygenates by EPA Method 8260B; EDB by EPA Method 8011; total lead by EPA Method 6010.  
 <= Less than the reporting limit specified in the laboratory report.  
 Concentrations in **BOLD** face type exceeded the RBSL / AL.  
 NR - Analyses not requested.  
 J - Estimated value below the laboratory reporting limit.  
 RBSL - Risk-Based Screening Levels as defined in Appendix D of SCDHEC, Bureau of Land and Waste Management, UST Management Division, Programmatic QAPP, Revision 3.0, May 2015, Table D1: RBSLs for Groundwater  
 AL - Action Levels as defined in Appendix D of SCDHEC, Bureau of Land and Waste Management, UST Management Division, Programmatic QAPP, Revision 3.0, May 2015, Table D2: Action Levels for Groundwater (Oxygenates).

## **FIGURES**

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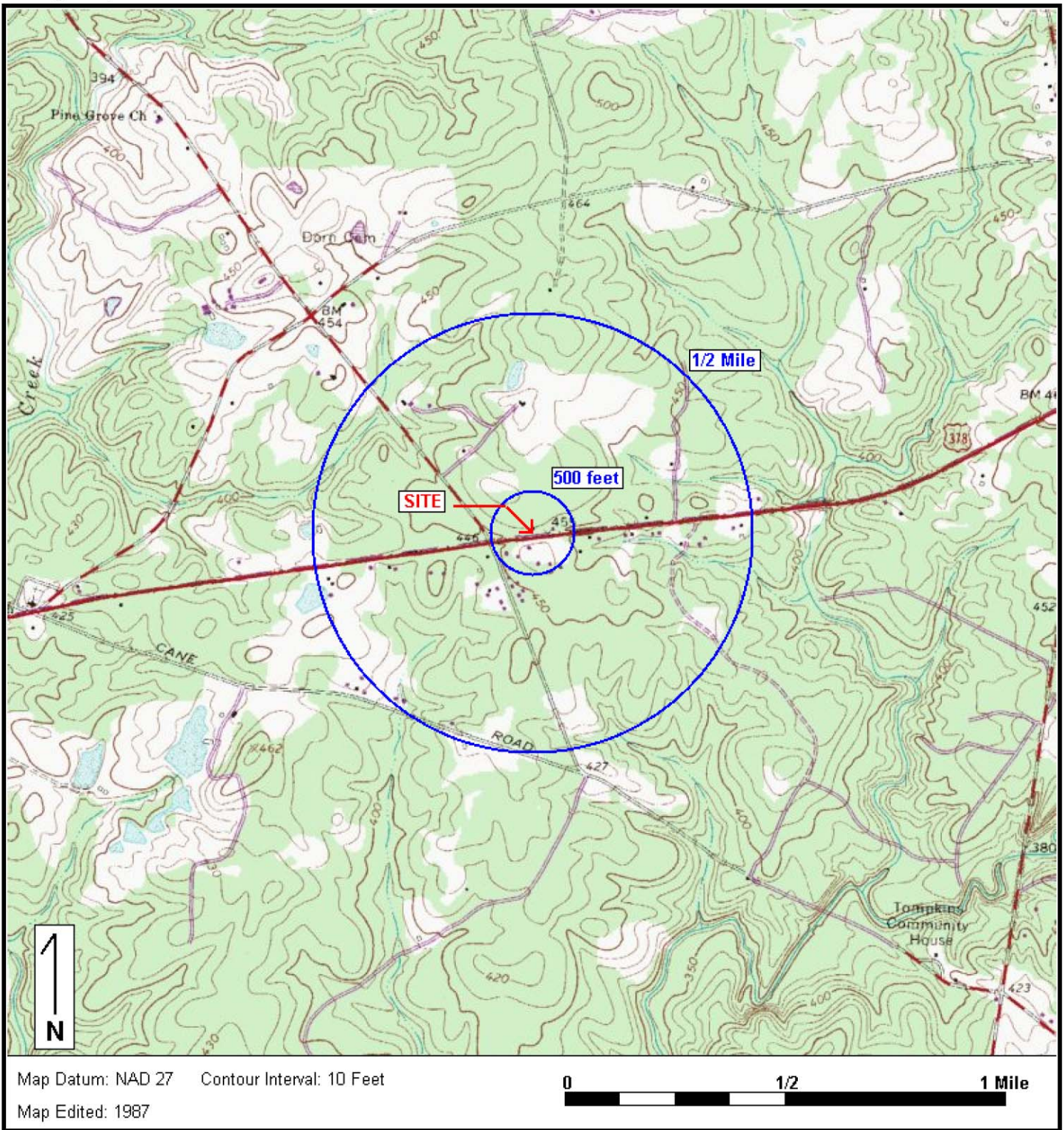




Environmental Compliance Services, Inc.  
13504 South Point Boulevard  
Charlotte, NC 28273  
Phone 704.583.2711  
www.ecsconsult.com

378 Truck Stop  
731 Highway 378  
Edgefield, SC 29824

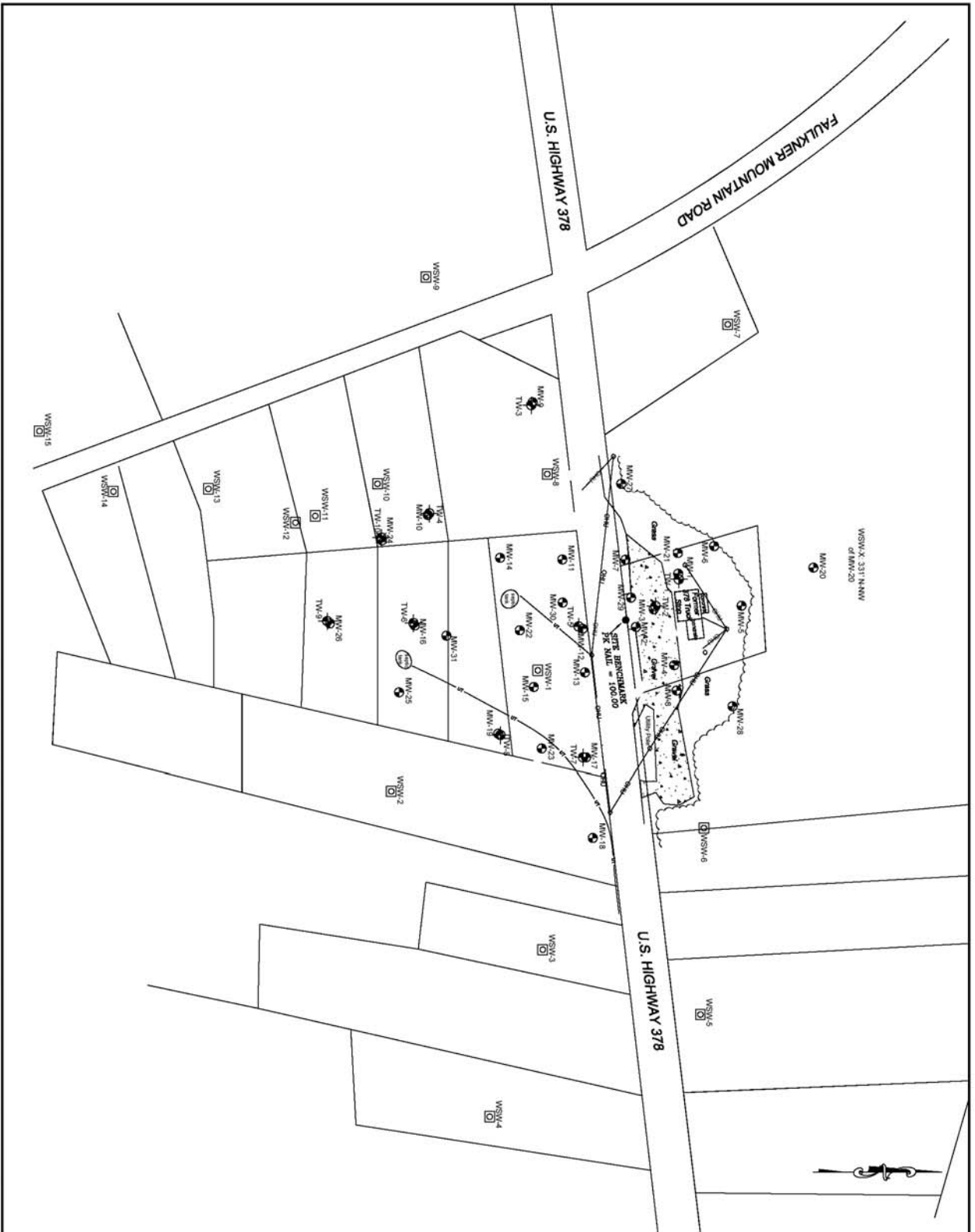
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC

Lat/Lon: 33° 56' 13" NORTH, 81° 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH

Generated By: Rich Walas



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊙ Abandoned Telescoping Monitoring Well
- ⊕ Water Supply Well
- ⊕ MW-1 Well I.D.

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13504 SOUTH POINT BLVD, UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704)583-2711 FAX: (704)583-2744

**378 Truck Stop**

731 Highway 378  
 Edgfield, SC

**Site Plan**

CLIENT: **Wilkerson Fuel Company, Inc.**

|       |            |          |          |
|-------|------------|----------|----------|
| DATE  | 10/13/09   | BY       | 10/13/09 |
| SCALE | 1"=150'    | FOUR NO. | 2        |
| SCALE | 5/27/11    | FOUR NO. | 2        |
| DATE  | 14-21-2010 | FOUR NO. | 2        |
| DATE  | 5/27/11    | FOUR NO. | 2        |



- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Underground Telephone Line
  - Utility Pole
  - Recovery Well
  - ⊙ Shallow (Water Table) Monitoring Well
  - ⊕ Telescoping Monitoring Well
  - ☐ Water Supply Well

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This information should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected on 11/9/15 & 11/12/15.

Above concentrations represent May 2001 Risk-Based Screening Levels & August 2008 Action Levels. Concentrations in bold face type exceeded the RBS/Action Level.

<1.0 - Less than the laboratory specified reporting limit.

J - Estimated value between the method detection limit and the laboratory reporting limit.

ND - Conc Not Detected

| Sample ID                | RBS/L | ALS/L |
|--------------------------|-------|-------|
| Date                     | 5     | 5     |
| Benzene                  | 1000  | 1000  |
| Toluene                  | 700   | 700   |
| Ethylbenzene             | 10000 | 10000 |
| Xylene (Total)           | 40    | 40    |
| Methyl-tert-butyl ether  | 2.5   | 2.5   |
| Naphthalene              | 0.05  | 0.05  |
| 1,2-Dichloroethane (EDB) | 5     | 5     |
| 1,2-Dichloroethane       | 240   | 240   |
| tert-Amyl Alcohol        | 1400  | 1400  |
| tert-Butyl Alcohol       | 1400  | 1400  |

**ecs**

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13904 SOUTH POINT BLVD. UNIT F  
CHARLOTTE, NORTH CAROLINA 28273  
TEL: (704)585-2711 FAX: (704)585-2744

**378 Truck Stop**  
731 Highway 378  
Edgefield, SC

**Groundwater Quality Map - Shallow Wells**  
CLIENT: Wilkerson Fuel Company, Inc.

DATE: 12/11/15

SCALE: 1"=150'

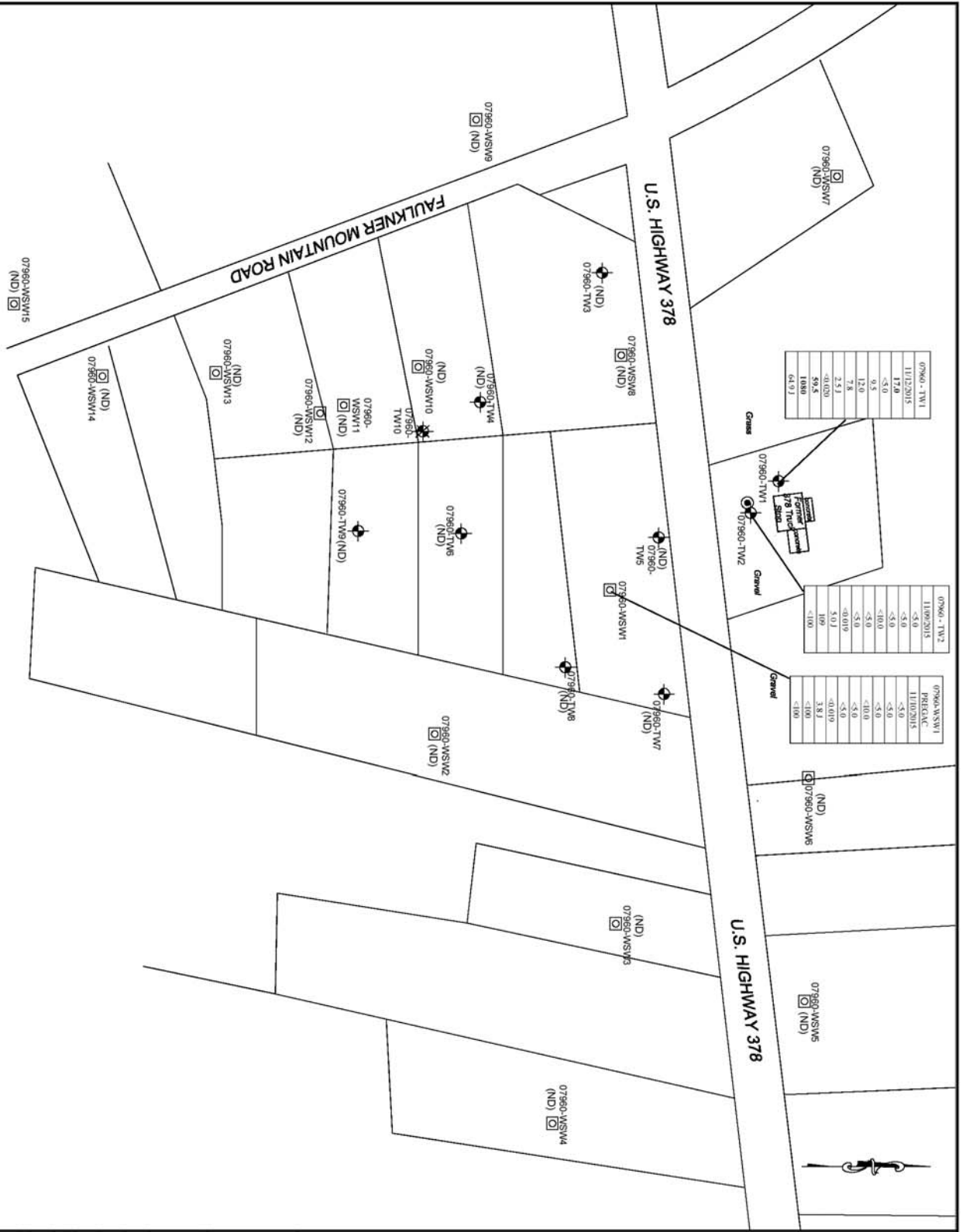
PROJECT: Groundwater Quality Map - Shallow Wells

CLIENT: Wilkerson Fuel Company, Inc.

DATE: 12/11/15

SCALE: 1"=150'

| NO. | DATE     | BY | DESCRIPTION |
|-----|----------|----|-------------|
| 1   | 12/11/15 | JD | DESIGNED    |
| 2   | 12/11/15 | JD | CHECKED     |
| 3   | 12/11/15 | JD | APPROVED    |



**Legend**

- Approximate Property Line
- Overhead Electric Line
- UT — Underground Telephone Line
- Utility Pole
- Recovery Well
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Abandoned Telescoping Monitoring Well
- Water Supply Well

| Sample ID                | RBSL / ALS |
|--------------------------|------------|
| Date                     |            |
| Benzene                  | 5          |
| Toluene                  | 1000       |
| Ethylbenzene             | 700        |
| Xylene (Total)           | 10000      |
| Methyl-tert-butyl ether  | 40         |
| Naphthalene              | 25         |
| 1,2-Dichloroethane (EDD) | 0.05       |
| 1,2-Dichloroethane       | 5          |
| tert-Amyl Alcohol        | 240        |
| tert-Butyl Alcohol       | 1400       |

**General Notes:**

All locations, dimensions, and property lines shown on this plan should not be used for construction or land conveyance purposes. All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected on 11/9/15 - 11/12/15.

Above concentrations represent May 2001 Risk-Based Screening Levels & August 2008 Action Levels. Concentrations in bold face type exceeded the RBSL/Action Level.

<1.0 - Less than the laboratory specified reporting limit.

J - Estimated value between the method detection limit and the laboratory reporting limit.

ND - Conc Not Detected



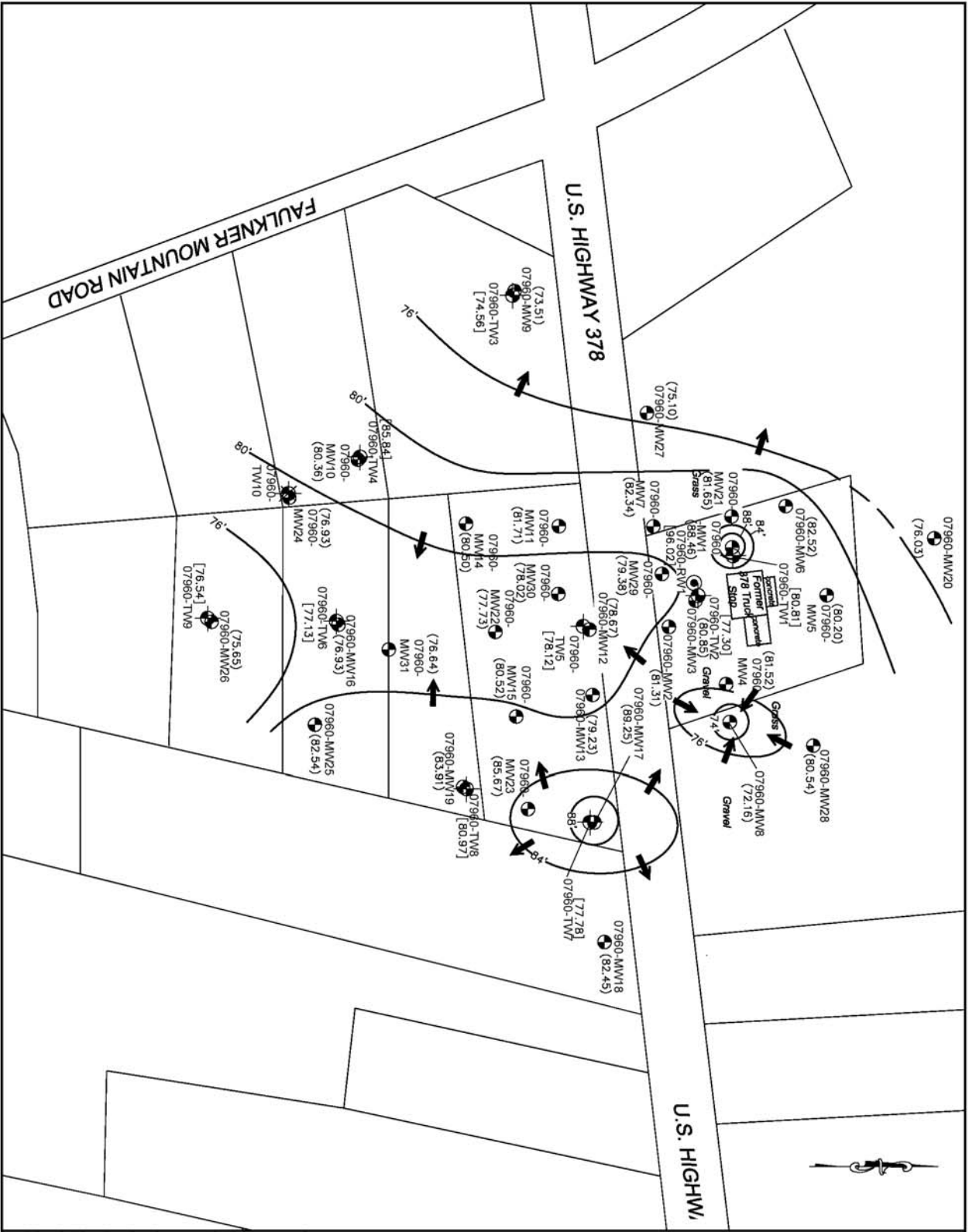
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13904 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704)585-2711 FAX: (704)585-2744

**378 Truck Stop**

731 Highway 378  
 Edgefield, SC

CLIENT: **Groundwater Quality Map - Telescoping and Meter Supply Wells**  
 WILKERSON FUEL COMPANY, INC.

| DATE    | BY        | REVISION |
|---------|-----------|----------|
| 12/1/15 | 14-214210 | 48       |



**Legend**

- Approximate Property Line
- Utility Pole
- 07960-RWI Recovery Well
- 07960-MW Spillow (Water Table) Monitoring Well
- 07960-TM Telescoping Monitoring Well
- 07960-MW Abandoned Telescoping Monitoring Well
- 07960-WSW Water Supply Well
- (88.45) Groundwater Elevation
- (80.81) Telescoping Wells Groundwater Elevation
- Water Table Contour (Obtain where Inferred)
- 76' Flow Direction Indicator

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark, with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on 11/9/15.

Water table contours and flow directions assume homogeneous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

Telescoping Wells Groundwater Elevation was not used to determine groundwater flow



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13904 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704) 585-2711 FAX: (704) 585-2744

**378 Truck Stop**

731 Highway 378  
 Edgefield, SC

**Groundwater Elevation Map**

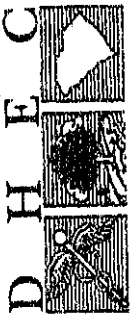
Client: **Wilkinson Fuel Company, Inc.**

|           |              |             |              |
|-----------|--------------|-------------|--------------|
| DATE:     | 12/7/15      | SCALE:      | 1"=100'      |
| DRAWN BY: | DESIGNED BY: | CHECKED BY: | APPROVED BY: |
| KD        | KD           | NF          | NF           |
| SCALE:    | DATE:        | JOB NO.:    | FIGURE NO.:  |
| 1"=100'   | 12/7/15      | 14-214210   | 5            |

**APPENDIX B**

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Sampling Logs, Laboratory Reports, Chain of Custody and QAQC Table



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-12-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright

County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, B. clouds Ambient Air Temp (°F): 57°

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_

Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)

pH  $4.00 \pm 0.10$ :  or N at  $^{\circ}\text{C}$  12.01 Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  or N

Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ :  or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  or N

Comments: \_\_\_\_\_

Well ID: 07960 - MW1 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump

MW  IW  RW  Surface Water  Other \_\_\_\_\_

Screened Interval (ft): unknown Depth to Free Product (DTP) (ft.): \_\_\_\_\_

Depth to Groundwater (DTW) (ft.): 13.52 Total Well Depth (TWD) (ft): 44.15 Free Product Thickness (ft): \_\_\_\_\_

Length of water column (LWC = TWD - DGW) (ft.): 30.63 1 casing volume (CV = LWC x C) (gals.): 4.99 3 casing volumes (3 x CV) (gals.): 14.9

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 4.99     |          |          |         |          |          | 0        |
| Time (military)               | 0938    | 0950     |          |          |         |          |          | 1000     |
| PH (s.u.)                     | 5.04    | 5.03     |          |          |         |          |          | 5.62     |
| Specific Conductivity (µS/cm) | 0.088   | 0.098    |          |          |         |          |          | 0.099    |
| Water Temperature (°C)        | 19.78   | 19.04    |          |          |         |          |          | 18.80    |
| Turbidity (NTU)               | 122     | 142      |          |          |         |          |          | 149      |
| Dissolved Oxygen (mg/L)       | 0.00    | 0.08     |          |          |         |          |          | 0.05     |

Sampled By: B Peay Sampling Time: 1000 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_

Notes: Well purged dry after 1 well volume.

Signature: [Signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

DHEC 0423 (10/2012)



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

## Site Information

Date: 11-11-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Obs. Sunny Ambient Air Temp (°F): 69°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) 6XRKFCE  
 pH  $4.00 \pm 0.10$ :  or N at 11.50 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ :  or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  or N  
 Comments: \_\_\_\_\_

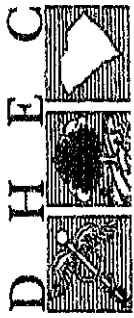
## Well Information

Well ID: 07960 - MW2 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  Bailer  Pump  
 Private WSW  Public WSW  
 Screened Interval (ft.): Un known Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Total Well Depth (TWD) (ft.): 43.35 Free Product Thickness (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 23.67 1 casing volume (CV = LWC x C) (gals.): 3.85 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

| Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|---------|----------|----------|----------|---------|----------|----------|----------|
| 0       | 3.85     | 3.85     | 1.92     |         |          |          | 0        |
| 1539    | 1549     | 1557     | 1608     |         |          |          | 1613     |
| 6.40    | 6.25     | 6.12     | 6.00     |         |          |          | 6.47     |
| 0.357   | 0.391    | 0.357    | 0.391    |         |          |          | 0.391    |
| 24.03   | 24.10    | 24.12    | 20.95    |         |          |          | 20.84    |
| 61.9    | 7100     | 7100     | 7100     |         |          |          | 71000    |
| 4.80    | 2.10     | 2.14     | 2.56     |         |          |          | 3.78     |

Sampled By: B. Peay Sampling Time: 1613 Duplicate:  or  if yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Signature: [Signature]





# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

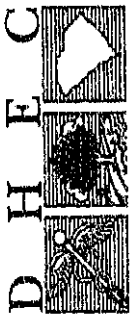
Date: 11-12-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SDS, Sunny Ambient Air Temp (°F): 51°

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) 6XRKFKCE  
 pH  $4.00 \pm 0.10$ :  or N at 12.0 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ :  or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW3 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Private WSW  Public WSW \_\_\_\_\_  Bailor \_\_\_\_\_ Pump \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 20.69 Screened Interval (ft): 10 - 40 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 18.81 Total Well Depth (TWD) (ft): 39.50 Free Product Thickness (ft): \_\_\_\_\_  
 3 casing volumes (3 x CV) (gals.): 3.06

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.06     | 3.06     | 1.53    | 1.53     |         |          |          | 0        |
| Time (military)               | 0750    | 0757     | 0803     | 0803    | 0808     |         |          |          | 0815     |
| PH (s.u.)                     | 5.08    | 6.11     | 6.20     | 6.15    | 6.18     |         |          |          | 6.20     |
| Specific Conductivity (µS/cm) | 0.453   | 0.526    | 0.564    | 0.564   | 0.563    |         |          |          | 0.563    |
| Water Temperature (°C)        | 19.75   | 20.00    | 20.01    | 19.89   | 19.79    |         |          |          | 19.81    |
| Turbidity (NTU)               | 19.3    | 585      | 7000     | >1000   | >1000    |         |          |          | 826      |
| Dissolved Oxygen (mg/L)       | 0.54    | 0.09     | 0.09     | 0.15    | 0.43     |         |          |          | 0.35     |

Sampled By: B. Peay Sampling Time: 0815 Duplicate:  or N If yes, Duplicate Time: 0815  
 Notes: 07960 - Dbl 3 taken from MW3 within 5 minutes of sample.  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

|  |   |   |  |
|--|---|---|--|
| Date: <b>11-11-15</b>  | Site ID #: 07960                                    | Site Name: 378 Truck Stop   | Field Personnel: <b>B. Peay, K. Wright</b> |
| County: Edgefield  | Project Manager: Noelle France                      | General Weather Conditions: <b>60s, Sunny</b>   | Ambient Air Temp (°F): <b>69°</b>          |
| Meter Name: _____ Serial #: _____<br>Calibration: _____  |   | pH 4.00 ± 0.10: <input type="radio"/> or N at _____ °C <b>11.50</b><br>Turbidity 0.0 NTU ± 1.0: <input checked="" type="radio"/> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <input checked="" type="radio"/> or N<br>DO 8.78 mg/L ± 10%: <input checked="" type="radio"/> or N |  |
| Comments: _____<br>Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailor _____ Pump  |   |   |  |
| Well ID: 07960 - <b>mw4</b>  | Well Diameter (inches): <b>2.0</b>                  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  | Depth to Free Product (DTP) (ft.): _____   |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other _____ | Screened Interval (ft): <b>10 - 40</b>              | Free Product Thickness (ft): _____  | Free Product Thickness (ft): _____         |
| Depth to Groundwater (DTW) (ft.): <b>18.96</b>   | Total Well Depth (TWD) (ft): <b>39.71</b>           | 3 casing volumes (3 x CV) (gals.): <b>10.14</b>   |  |
| Length of water column (LWC = TWD - DGW) (ft.): <b>20.75</b>   | 1 casing volume (CV = LWC x C) (gals.): <b>3.38</b> |   |  |
| Initial  | 1st Vol.  | 2nd Vol.  | 3rd Vol.                                   |
| 0  | <b>3.38</b>   | <b>3.38</b>   | <b>3.38</b>                                |
| Volume Purged (gallons)  | <b>1428</b>   | <b>1436</b>   | <b>1448</b>                                |
| Time (military)  | <b>6:27</b>   | <b>6:30</b>   | <b>6:33</b>                                |
| PH (s.u.)  | <b>6.433</b>  | <b>6.445</b>  | <b>6.440</b>                               |
| Specific Conductivity (µS/cm)  | <b>22.16</b>  | <b>22.25</b>  | <b>21.99</b>                               |
| Water Temperature (°C)   | <b>45.1</b>   | <b>560.0</b>  | <b>746</b>                                 |
| Turbidity (NTU)  | <b>0.04</b>   | <b>1.62</b>   | <b>0.20</b>                                |
| Dissolved Oxygen (mg/L)  |   |   |  |
| Sampled By: <b>B. Peay</b>   | Sampling Time: <b>1448</b>                          | Duplicate: <b>Y</b> or <b>N</b>   | If yes, Duplicate Time: _____              |
| Notes: <b>Well purged day after 2 well volumes</b>   |   |   |  |
| Signature: <b>B. Peay</b>  |   |   |  |



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

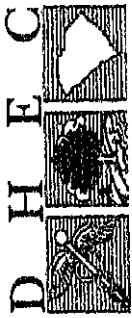
Date: 11-11-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 60s, Sunny Ambient Air Temp (°F): 67°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) 6XRKFKCE  
 pH  $4.00 \pm 0.10$ : 0 or N at 11.50 °C 11.50 Turbidity  $0.0 \text{ NTU} \pm 1.0$ : 0 or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW5 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Private WSW  Public WSW \_\_\_\_\_ Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 23.98 Total Well Depth (TWD) (ft): 39.81 Free Product Thickness (ft): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 15.83 1 casing volume (CV = LWC x C) (gals.): 2.58 3 casing volumes (3 x CV) (gals.): 7.74

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.58     |          |         |          |         |          |          | 0        |
| Time (military)               | 1250    | 1256     |          |         |          |         |          |          | 1305     |
| PH (s.u.)                     | 6.13    | 6.07     |          |         |          |         |          |          | 6.07     |
| Specific Conductivity (µS/cm) | 0.736   | 0.719    |          |         |          |         |          |          | 0.716    |
| Water Temperature (°C)        | 21.01   | 19.38    |          |         |          |         |          |          | 19.19    |
| Turbidity (NTU)               | 78.8    | 363      |          |         |          |         |          |          | 714      |
| Dissolved Oxygen (mg/L)       | 8.21    | 2.00     |          |         |          |         |          |          | 1.78     |

Sampled By: B. Peay Sampling Time: 1305 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged dry after 1 well volume plus 1 gallon. Signature: [Signature]  
 DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Date: 11-11-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 60s, sunny Ambient Air Temp (°F): 60

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXRKFKCE  
 pH  $4.00 \pm 0.10$ : Y or N at 11.50 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ : Y or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : Y or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW4 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  Bailer  Pump  
 Private WSW  Public WSW \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 19.73 Screened Interval (ft.): 35.05 - 36.05 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 15.41 Total Well Depth (TWD) (ft.): 35.14 Free Product Thickness (ft.): \_\_\_\_\_

1 casing volume (CV = LWC x C) (gals.): 2.51 3 casing volumes (3 x CV) (gals.): 7.53

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.51     | 2.51     |         | 2.51     |         |          |          | 0        |
| Time (military)               | 1133    | 1138     | 1141     |         | 1145     |         |          |          | 1150     |
| PH (s.u.)                     | 6.13    | 6.10     | 6.08     |         | 6.10     |         |          |          | 6.12     |
| Specific Conductivity (µS/cm) | 0.168   | 0.161    | 0.161    |         | 0.163    |         |          |          | 0.158    |
| Water Temperature (°C)        | 19.89   | 21.44    | 19.98    |         | 20.10    |         |          |          | 21.23    |
| Turbidity (NTU)               | 50.2    | 71000    | 71000    |         | 71000    |         |          |          | 660      |
| Dissolved Oxygen (mg/L)       | 3.02    | 2.85     | 4.34     |         | 4.12     |         |          |          | 0.82     |

Sampled By: B. Peay Sampling Time: 1150 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

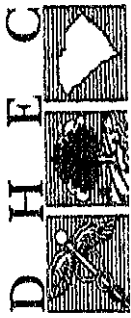
Date: 1/12-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, Sunny Ambient Air Temp (°F): 57

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Description: Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 Readings:  
 pH  $4.00 \pm 0.10$ : 0 or N at °C 12.01 Turbidity  $0.0$  NTU  $\pm 1.0$ : 0 or N  
 Specific Conductivity  $4.49$  mS/cm  $\pm 10\%$ : 0 or N DO  $8.78$  mg/L  $\pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW7 Well Diameter (inches): 2.0 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailer  Pump  
 Depth to Groundwater (DTW) (ft.): 17.38 Total Well Depth (TWD) (ft.): 35.00 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 17.02 1 casing volume (CV = LWC x C) (gals.): 2.85 3 casing volumes (3 x CV) (gals.): 8.56

| Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| 0       | 2.85     |          |         |          |         |          |          | 0        |
| 0724    | 0727     |          |         |          |         |          |          | 0735     |
| 5.77    | 5.81     |          |         |          |         |          |          | 5.83     |
| 0.160   | 0.188    |          |         |          |         |          |          | 0.178    |
| 19.07   | 20.09    |          |         |          |         |          |          | 20.13    |
| 14.4    | 079      |          |         |          |         |          |          | 523      |
| 1.04    | 1.05     |          |         |          |         |          |          | 1.98     |

Sampled By: B Peay Sampling Time: 0735 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 1 well volume plus 1 gallon. Signature: [Signature]  
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# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-11-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 60s, Sunny Ambient Air Temp (°F): 68F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXRKFKCE  
 pH  $4.00 \pm 0.10$ : 0 or N at 11.56 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ : 0 or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW8 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Private WSW  Public WSW  Bailer  Pump

Depth to Groundwater (DTW) (ft.): 27.76 Screened Interval (ft.): 20.08 - 35.08 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 7.39 Total Well Depth (TWD) (ft.): 35.15 Free Product Thickness (ft.): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 1.20 3 casing volumes (3 x CV) (gals.): 3.61

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 1.20     | 1.20     |         |          |         |          |          | 0        |
| Time (military)               | 1338    | 1342     | 1348     |         |          |         |          |          | 1359     |
| PH (s.u.)                     | 6.02    | 6.04     | 6.10     |         |          |         |          |          | 6.09     |
| Specific Conductivity (µS/cm) | 0.260   | 0.426    | 0.515    |         |          |         |          |          | 0.567    |
| Water Temperature (°C)        | 22.08   | 21.98    | 21.67    |         |          |         |          |          | 21.79    |
| Turbidity (NTU)               | 63.1    | 847      | >1000    |         |          |         |          |          | >1000    |
| Dissolved Oxygen (mg/L)       | 0.52    | 0.30     | 0.84     |         |          |         |          |          | 0.67     |

Sampled By: B Peay Sampling Time: 1359 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 2 well volumes.  
 Signature: [Signature]  
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# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

### Site Information

|                       |                                |   |  |
|-----------------------|--------------------------------|---|--|
| Date: <b>11-11-15</b> | Site ID #: 07960               | Site Name: 378 Truck Stop                     | Field Personnel: <b>B. Peay, K. Wright</b> |
| County: Edgefield     | Project Manager: Noelle France | General Weather Conditions: <b>40s, Sunny</b> | Ambient Air Temp (°F): <b>45.2F</b>        |

### Quality Assurance

|  |  |
|--|--|
| Meter Name: <b>6XR KFKCE</b><br>Serial #: <b>6XR KFKCE</b> | Calibration:<br>pH 4.00 ± 0.10: <b>Y</b> or N at <b>11.50</b> °C<br>Turbidity 0.0 NTU ± 1.0: <b>Y</b> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <b>Y</b> or N<br>DO 8.78 mg/L ± 10%: <b>Y</b> or N |
|--|--|

### Well Information

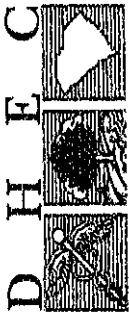
|  |   |  |
|--|---|--|
| Well ID: <b>07960 - MW9</b>  | Well Diameter (inches): <b>2.0</b>                  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652   |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other | Screened Interval (ft): <b>20.17 - 35.17</b>        | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW   | Total Well Depth (TWD) (ft): <b>35.24</b>           | Free Product Thickness (ft): <b>—</b>  |
| Depth to Groundwater (DTW) (ft.): <b>21.32</b>   | 1 casing volume (CV = LWC x C) (gals.): <b>2.25</b> | 3 casing volumes (3 x CV) (gals.): <b>6.76</b>   |
| Length of water column (LWC = TWD - DGW) (ft.): <b>13.92</b>   |   |  |

### Purging Data

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.25     |          |         |          |         |          |          | 0        |
| Time (military)               | 0730    | 0734     |          |         |          |         |          |          | 0740     |
| PH (s.u.)                     | 5.68    | 6.11     |          |         |          |         |          |          | 6.16     |
| Specific Conductivity (µS/cm) | 1.01    | 0.953    |          |         |          |         |          |          | 0.934    |
| Water Temperature (°C)        | 14.08   | 15.38    |          |         |          |         |          |          | 16.18    |
| Turbidity (NTU)               | 101     | 71000    |          |         |          |         |          |          | 71000    |
| Dissolved Oxygen (mg/L)       | 5.12    | 3.48     |          |         |          |         |          |          | 3.78     |

### Sampling Data

|  |                            |
|--|----------------------------|
| Sampled By: <b>B. Peay</b>   | Sampling Time: <b>0740</b> |
| Notes: <b>Well purged dry after 1 well volume.</b>   |                            |
| Duplicate: <b>Y</b> or <b>N</b> <input checked="" type="radio"/> if yes, Duplicate Time: _____ |                            |
| Signature: <b>[Signature]</b>  |                            |



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-1-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 40s, Sunny Ambient Air Temp (°F): 45°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH  $4.00 \pm 0.10$ : 0 or N at 11.50 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ : 0 or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW10 Well Diameter (inches): 2.0 Conversion Factor (C):  $1" \text{ well} = 0.047, 2" \text{ well} = 0.163, 4" \text{ well} = 0.652$  Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailer  Pump  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 18.76 Screened Interval (ft): 25.16 - 40.14 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 2.148 Total Well Depth (TWD) (ft): 40.24 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 3.50 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.50     | 3.50     |         | 3.50     |         |          |          | 0        |
| Time (military)               | 0755    | 0800     | 0805     |         | 0810     |         |          |          | 0813     |
| PH (s.u.)                     | 6.78    | 6.33     | 6.40     |         | 6.42     |         |          |          | 6.56     |
| Specific Conductivity (µS/cm) | 0.358   | 0.236    | 0.237    |         | 0.237    |         |          |          | 0.279    |
| Water Temperature (°C)        | 16.98   | 17.24    | 17.15    |         | 17.18    |         |          |          | 18.59    |
| Turbidity (NTU)               | 118     | 911      | 7000     |         | 7100C    |         |          |          | >1000    |
| Dissolved Oxygen (mg/L)       | 0.78    | 1.01     | 1.67     |         | 1.72     |         |          |          | 1.72     |

Sampled By: B. Peay Sampling Time: 0813 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Signature: [Signature]  
 DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL





# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11/11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 70

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH770 SWN / H00T6UN  
 pH  $4.00 \pm 0.10$   or N at  $^{\circ}\text{C}$  11.78 Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$   or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  Y or  N  
 Comments: DO 10.70

Well ID: 07960 - MW11 Well Diameter (inches): 2 Conversion Factor (C):  $1'' \text{ well} = 0.047, 2'' \text{ well} = 0.163, 4'' \text{ well} = 0.652$  Method of Purging/Sample Collection:  Bailor  Pump  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 20.90 Total Well Depth (TWD) (ft): 35.30 Free Product Thickness (ft): NA  
 Length of water column (LWC = TWD - DGW) (ft.): 14.40 1 casing volume (CV = LWC x C) (gals.): 2.35 3 casing volumes (3 x CV) (gals.): 7.05

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.35     | 2.35     | 1.17    | 6.17     |         |          |          | 0        |
| Time (military)               | 1405    | 1410     | 1415     | 1420    | 1424     |         |          |          | 1428     |
| PH (s.u.)                     | 6.61    | 6.48     | 6.51     | 6.56    | 6.59     |         |          |          | 6.85     |
| Specific Conductivity (µS/cm) | 6.818   | 0.863    | 6.871    | 0.891   | 0.865    |         |          |          | 0.785    |
| Water Temperature (°C)        | 17.38   | 17.76    | 17.69    | 17.59   | 17.51    |         |          |          | 17.35    |
| Turbidity (NTU)               | > 999   | > 999    | 925      | 948     | > 999    |         |          |          | 902      |
| Dissolved Oxygen (mg/L)       | 3.73    | 4.04     | 3.21     | 3.30    | 3.40     |         |          |          | 3.40     |

Sampled By: K. W. Wright Sampling Time: 1428 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged and sampled using disposable bailer, nylon tape and nitrile gloves Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

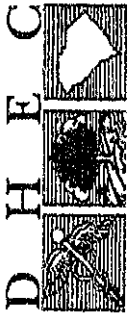
Date: 10/11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 70.5

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Turbidity 0.0 NTU ± 1.0%  or N  
 DO 8.78 mg/L ± 10%: Y or N  
 pH 4.00 ± 0.10  or N at 11.78 °C  
 Specific Conductivity 4.49 mS/cm ± 10%  or N  
 Comments: DO 10.70

Well ID: 07960 - MW12 Well Diameter (inches): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Bailer  Pump  
 Depth to Groundwater (DTW) (ft.): 24.99 Total Well Depth (TWD) (ft): 35.03 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 10.24 1 casing volume (CV = LWC x C) (gals.): 1.67 3 casing volumes (3 x CV) (gals.): 5.01

| Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| 0       | 1.67     | 1.67     | 0.83    | 0.83     |         |          |          | 0        |
| 1.40    | 1.45     | 1.50     | 1.55    | 1.200    |         |          |          | 1.205    |
| 7.44    | 6.72     | 6.65     | 6.67    | 6.69     |         |          |          | 6.99     |
| 0.924   | 0.975    | 0.972    | 0.953   | 0.964    |         |          |          | 0.956    |
| 18.176  | 18.64    | 18.35    | 18.10   | 18.04    |         |          |          | 18.36    |
| 368     | 951      | 7.999    | 7.999   | 7.999    |         |          |          | 7.999    |
| 2.19    | 3.27     | 2.68     | 3.22    | 3.43     |         |          |          | 3.97     |

Sampled By: Khinght Sampling Time: 1205 Duplicate  or N If yes, Duplicate Time: 1208  
 Notes: well purged and sampled using a disposable bailer, nylon rope and nitrile gloves. 07960-DUP2 prepared at 1208 Signature: [Signature]  
 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 DHEC 0423 (10/2012)



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

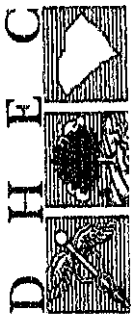
Date: 11/11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 50's

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH 4.00 ± 0.10:  or N at °C 11.78 Turbidity 0.0 NTU ± 1.0  or N  
 Specific Conductivity 4.49 mS/cm ± 10%:  or N DO 8.78 mg/L ± 10%:  Y or  N  
 Comments: DD 10.70

Well ID: 07960 - MW13 Well Diameter (inches): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 22.25 Screened Interval (ft): 25.19 - 40.19 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 18 Total Well Depth (TWD) (ft): 40.25 Free Product Thickness (ft): NA  
 1 casing volume (CV = LWC x C) (gals.): 2.93 3 casing volumes (3 x CV) (gals.): 8.79

| Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| 0       | 2.93     | 2.93     | 1.47    | 1.47     | 1.47    |          |          | 0        |
| 0950    | 6.51     | 10.05    | 10.10   | 10.15    | 10.20   |          |          | 10.25    |
| 6.15    | 6.51     | 6.51     | 6.55    | 6.61     | 6.65    |          |          | 6.64     |
| 6.17    | 1.10     | 1.10     | 1.09    | 1.08     | 1.10    |          |          | 1.10     |
| 16.51   | 17.79    | 17.90    | 17.82   | 17.72    | 17.45   |          |          | 17.41    |
| 956     | 918      | 992      | 6.91    | 730      | 753     |          |          | 7.999    |
| 2.70    | 3.14     | 3.15     | 7.17    | 6.55     | 3.45    |          |          | 4.33     |

Method of Purging/Sample Collection:  
 Bailor  Pump  
 Method of Purging/Sample Collection:  
 Bailor  Pump  
 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Sampled By: K. Wright Sampling Time: 10.25  
 Notes: Well purged and sampled using a disposable bailer, nylon eye and nitrile gloves  
 Signature: [Signature]  
 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 DHEC 0423 (10/2012)



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

Date: 11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SUNNY Ambient Air Temp (°F): 70

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH 770 STN/ pH  $4.00 \pm 0.10$ : 6 or N at 11.78 °C 11.78 Turbidity  $0.0$  NTU  $\pm 1.0$ : 0 or N  
HOOTS LN Specific Conductivity  $4.49$  mS/cm  $\pm 10\%$ : 0 or N DO  $8.78$  mg/L  $\pm 10\%$ : Y or N  
 Comments: DD 10.70

Well ID: 07960 - MW14 Well Diameter (inches): 2 Conversion Factor (C):  $1''$  well =  $0.047$ ,  $2''$  well =  $0.163$ ,  $4''$  well =  $0.652$  Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailor \_\_\_\_\_ Pump \_\_\_\_\_  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 22.98 Screened Interval (ft): 24.74 - 39.74 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 16.84 Total Well Depth (TWD) (ft): 39.82 Free Product Thickness (ft): NA  
 1 casing volume (CV = LWC x C) (gals.): 2.74 3 casing volumes (3 x CV) (gals.): 8.22

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.74     | 2.74     | 1.37    | 1.37     |         |          |          | 0        |
| Time (military)               | 1320    | 1326     | 1335     | 1340    | 1344     |         |          |          | 1347     |
| PH (s.u.)                     | 7.12    | 6.36     | 6.31     | 6.35    | 6.40     |         |          |          | 6.54     |
| Specific Conductivity (µS/cm) | 0.511   | 0.494    | 0.527    | 0.539   | 0.496    |         |          |          | 0.482    |
| Water Temperature (°C)        | 17.15   | 16.63    | 16.39    | 16.66   | 16.07    |         |          |          | 16.09    |
| Turbidity (NTU)               | 749     | > 999    | > 999    | > 999   | > 999    |         |          |          | > 999    |
| Dissolved Oxygen (mg/L)       | 2.39    | 2.51     | 2.60     | 3.71    | 4.41     |         |          |          | 3.73     |

Sampled By: K. Wright Sampling Time: 1347 Duplicate: Y or N if yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged and sampled using disposable bailer, nylon rope and nitrile gloves  
 Signature: [Signature]



## Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11/11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SUNNY Ambient Air Temp (°F): 50s

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH770 STN/ pH  $4.00 \pm 0.10$  Y or N at 11.78 °C Y or N Turbidity  $0.0$  NTU  $\pm 1.00$  or N  
H20T SLN Specific Conductivity  $4.49$  mS/cm  $\pm 10\%$  Y or N DO  $8.78$  mg/L  $\pm 10\%$  Y or N  
 Comments: 10.70

Well ID: 07960 - MW15 Well Diameter (inches): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailor \_\_\_\_\_ Pump \_\_\_\_\_  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 22.64 Screened Interval (ft): 25.13 - 40.13 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 17.58 Total Well Depth (TWD) (ft): 40.22 Free Product Thickness (ft): NA  
 1 casing volume (CV = LWC x C) (gals.): 2.87 3 casing volumes (3 x CV) (gals.): 8.61

|                               | Initial | 1st Vol. | 2nd Vol. | 2 1/2 Vol. | 3rd Vol. | 3 1/2 Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|------------|----------|------------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.87     | 2.87     | 1.44       | 1.44     |            |          |          | 0        |
| Time (military)               | 0845    | 0850     | 0905     | 0910       | 0915     |            |          |          | 0920     |
| PH (s.u.)                     | 5.28    | 6.09     | 6.01     | 5.98       | 6.02     |            |          |          | 6.03     |
| Specific Conductivity (µS/cm) | 0.524   | 0.457    | 0.436    | 0.427      | 0.430    |            |          |          | 0.431    |
| Water Temperature (°C)        | 14.13   | 14.97    | 15.23    | 15.39      | 15.57    |            |          |          | 15.52    |
| Turbidity (NTU)               | 514     | > 999    | > 999    | > 999      | > 999    |            |          |          | > 999    |
| Dissolved Oxygen (mg/L)       | 5.56    | 5.69     | 6.06     | 4.68       | 4.36     |            |          |          | 4.57     |

Sampled By: K. Wright Sampling Time: 0920 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged and sampled using disposable bailer, nylon rope and nitrile gloves. Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Site Information

Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SB, Cloudy Ambient Air Temp (°F): 50s

Quality Assurance

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXRKFKCE  
 pH  $4.00 \pm 0.10$ : 0 or N at \_\_\_\_\_ °C 11.59 Turbidity  $0.0$  NTU  $\pm 1.0$ : (Y) or N  
 Specific Conductivity  $4.49$  mS/cm  $\pm 10\%$ : 0 or N DO  $8.78$  mg/L  $\pm 10\%$ : (Y) or N  
 Comments: \_\_\_\_\_

Well Information

Well ID: 07960 - MW16 Well Diameter (inches): 2.0 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailer  Pump \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 24.39 Screened Interval (ft): 25.11 - 40.11 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 15.81 Total Well Depth (TWD) (ft): 40.20 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 2.57 3 casing volumes (3 x CV) (gals.): 7.73

Sampling Data

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.57     |          |         |          |         |          |          | 0        |
| Time (military)               | 1420    | 1425     |          |         |          |         |          |          | 1430     |
| PH (s.u.)                     | 6.44    | 6.43     |          |         |          |         |          |          | 6.45     |
| Specific Conductivity (µS/cm) | 1.34    | 1.36     |          |         |          |         |          |          | 1.36     |
| Water Temperature (°C)        | 18.13   | 18.11    |          |         |          |         |          |          | 17.96    |
| Turbidity (NTU)               | 89.0    | 243      |          |         |          |         |          |          | 264      |
| Dissolved Oxygen (mg/L)       | 0.00    | 3.89     |          |         |          |         |          |          | 9.48     |

Sampling Data

Sampled By: B. Peay Sampling Time: 1430 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 1 well volume + ½ gallon.  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, Cloudy Ambient Air Temp (°F): 58F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH  $4.00 \pm 0.10$ : 0 or N at  $^{\circ}\text{C}$  11.59 Turbidity  $0.0 \text{ NTU} \pm 0$ : 0 Y or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW17 Well Diameter (inches): 2.0 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW  
 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 Screened Interval (ft): 20.02 - 35.02 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Total Well Depth (TWD) (ft): 35.06 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 4.22 3 casing volumes (3 x CV) (gals.): 12.66

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 4.22     |          |         |          |         |          |          | 0        |
| Time (military)               | 0849    | 0900     |          |         |          |         |          |          | 0910     |
| PH (s.u.)                     | 5.65    | 6.51     |          |         |          |         |          |          | 6.17     |
| Specific Conductivity (µS/cm) | 113     | 0.106    |          |         |          |         |          |          | 0.094    |
| Water Temperature (°C)        | 18.09   | 18.43    |          |         |          |         |          |          | 18.22    |
| Turbidity (NTU)               | 140     | >1000    |          |         |          |         |          |          | 427      |
| Dissolved Oxygen (mg/L)       | 5.24    | 5.15     |          |         |          |         |          |          | 3.92     |

Sampled By: B. Peay Sampling Time: 0910 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged dry after well volume + 1 gallon  
 Signature: [Signature]  
 DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 70

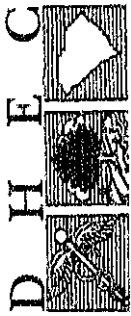
Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH770 STN / 400 TS LN  
 pH  $4.00 \pm 0.10$   or N at 11.75 °C 11.75 Turbidity  $0.0 \text{ NTU} \pm 1.0$   or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$   or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or  N  
 Comments: DO 10.70

Well ID: 07960 - MW18 Well Diameter (inches): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  Bailor  Pump  
 Private WSW \_\_\_\_\_ Public WSW \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 12.60 Total Well Depth (TWD) (ft): 35.75 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 23.15 1 casing volume (CV = LWC x C) (gals.): 3.77 3 casing volumes (3 x CV) (gals.): 11.31

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.77     | 3.77     | 1.88    |          |         |          |          | 0        |
| Time (military)               | 1045    | 1653     | 1700     | 1705    |          |         |          |          | 1710     |
| PH (s.u.)                     | 7.02    | 6.18     | 6.07     | 6.14    |          |         |          |          | 6.23     |
| Specific Conductivity (µS/cm) | 0.242   | 0.212    | 0.223    | 0.221   |          |         |          |          | 0.230    |
| Water Temperature (°C)        | 16.93   | 17.37    | 17.17    | 17.04   |          |         |          |          | 16.82    |
| Turbidity (NTU)               | 880     | > 999    | 699      | > 999   |          |         |          |          | > 999    |
| Dissolved Oxygen (mg/L)       | 5.14    | 9.14     | 7.77     | 6.17    |          |         |          |          | 6.57     |

Sampled By: K. Wright Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 2 1/2 volumes plus 1/2 gallon. Well purged and sampled using disposable bailer; nylon rope and nitrile gloves  
 Signature: \_\_\_\_\_





# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

### Site Information

Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SDs, Cloudy Ambient Air Temp (°F): 50s

### Quality Assurance

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH  $4.00 \pm 0.10$ : 9 or N at  $^{\circ}\text{C}$  11.59 Turbidity  $0.0 \text{ NTU} \pm 1.0$ : 0 or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

### Well Information

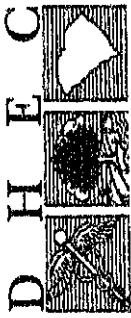
Well ID: 07960 - MW19 Well Diameter (inches): 2.0 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailor  Pump  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 17.16 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 21.44 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 3.49 3 casing volumes (3 x CV) (gals.): 10.48

### Purging Data

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.49     | 3.49     | 1.74    | 1.74     | 1.74    |          |          | 0        |
| Time (military)               | 1205    | 1211     | 1216     | 1219    | 1221     | 1223    |          |          | 1225     |
| PH (s.u.)                     | 5.20    | 5.33     | 5.38     | 5.39    | 5.37     | 5.36    |          |          | 5.35     |
| Specific Conductivity (µS/cm) | 0.227   | 0.147    | 0.137    | 0.144   | 0.136    | 0.134   |          |          | 0.133    |
| Water Temperature (°C)        | 18.24   | 18.66    | 18.62    | 18.61   | 18.60    | 18.59   |          |          | 18.59    |
| Turbidity (NTU)               | 15.7    | 728      | 7000     | 7000    | 71000    | 71000   |          |          | 315      |
| Dissolved Oxygen (mg/L)       | 3.94    | 8.29     | 10.01    | 9.54    | 3.66     | 3.36    |          |          | 3.18     |

### Sampling Data

Sampled By: B. Peay Sampling Time: 1725 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

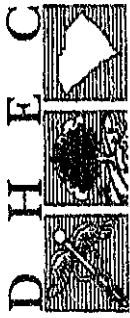
Date: 11-11-05 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 60s, Sunny Ambient Air Temp (°F): 60

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) 6XRKFKCE  
 pH  $4.00 \pm 0.10$ : Y or N at 11.50 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ : Y or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : Y or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW20 Well Diameter (inches): 2.0 Method of Purging/Sample Collection: X Baller \_\_\_ Pump \_\_\_  
 MW \_\_\_ IW \_\_\_ RW \_\_\_ Surface Water \_\_\_ Other \_\_\_ Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 Private WSW \_\_\_ Public WSW \_\_\_ Screened Interval (ft): 30.05 - 45.05 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 34.49 Total Well Depth (TWD) (ft): 45.10 Free Product Thickness (ft): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 10.61 1 casing volume (CV = LWC x C) (gals.): 1.72 3 casing volumes (3 x CV) (gals.): 5.18

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 1.72     |          |         |          |         |          |          | 0        |
| Time (military)               | 1214    | 1224     |          |         |          |         |          |          | 1235     |
| PH (s.u.)                     | 6.24    | 6.21     |          |         |          |         |          |          | 6.19     |
| Specific Conductivity (µS/cm) | 0.400   | 0.412    |          |         |          |         |          |          | 0.416    |
| Water Temperature (°C)        | 20.01   | 19.09    |          |         |          |         |          |          | 18.19    |
| Turbidity (NTU)               | 256     | >1000    |          |         |          |         |          |          | >1000    |
| Dissolved Oxygen (mg/L)       | 0.05    | 1.45     |          |         |          |         |          |          | 1.00     |

Sampled By: B. Peay Sampling Time: 1235 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 1 well volume plus 1 gallon. Signature: [Signature]  
 DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

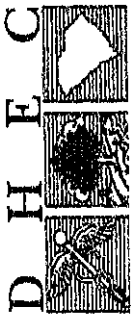
Date: 11-11-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, Sunny Ambient Air Temp (°F): 59°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH  $4.00 \pm 0.10$ :  or N at  $^{\circ}\text{C}$  11.50 Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ :  or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW21 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.168, 4" well = 0.652 Method of Purging/Sample Collection:  Baller  Pump  
 MW  IW  RW  Surface Water  Other  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 20.05 Screened Interval (ft): 25.16 - 40.14 Depth to Free Product (DTP) (ft.): —  
 Length of water column (LWC = TWD - DGW) (ft.): 20.18 Total Well Depth (TWD) (ft): 40.23 Free Product Thickness (ft): —  
 1 casing volume (CV = LWC x C) (gals.): 3.28 3 casing volumes (3 x CV) (gals.): 9.86

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.28     |          |         |          |         |          |          | 0        |
| Time (military)               | 1057    | 1101     |          |         |          |         |          |          | 1109     |
| PH (s.u.)                     | 6.30    | 6.25     |          |         |          |         |          |          | 6.22     |
| Specific Conductivity (µS/cm) | 1.54    | 0.588    |          |         |          |         |          |          | 0.612    |
| Water Temperature (°C)        | 16.78   | 18.97    |          |         |          |         |          |          | 19.37    |
| Turbidity (NTU)               | 130     | 835      |          |         |          |         |          |          | 605      |
| Dissolved Oxygen (mg/L)       | 0.04    | 2.53     |          |         |          |         |          |          | 5.23     |

Sampled By: B3 Peay Sampling Time: 1109 Duplicate: Y or (N) If yes, Duplicate Time: —  
 Notes: well purged dry after 1 well volume plus 1 gallon. Signature: [Signature]  
 DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11/11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 60.5

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH  $4.00 \pm 0.10$ : 7.0 or N at  $^{\circ}\text{C}$  11.78 Turbidity  $0.0 \text{ NTU} \pm 1.0$  0 or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : Y or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or N  
 Comments: DO 10.70

Well ID: 07960 - MW22 Well Diameter (inches): 2 Conversion Factor (C):  $1" \text{ well} = 0.047, 2" \text{ well} = 0.163, 4" \text{ well} = 0.652$   
 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  JW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW  \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 27.40 Screened Interval (ft): 25.09 - 40.09 Depth to Free Product (DTP) (ft.): NP  
 Free Product Thickness (ft): NA

Length of water column (LWC = TWD - DGW) (ft.): 13.75 1 casing volume (CV = LWC x C) (gals.): 2.24 3 casing volumes (3 x CV) (gals.): 6.72

| Initial      | 1st Vol.     | 2nd Vol.        | 2 1/2 Vol.      | 3rd Vol. | 3 1/2 Vol. | 4th Vol. | 5th Vol. | Sampling        |
|--------------|--------------|-----------------|-----------------|----------|------------|----------|----------|-----------------|
| 0            | <u>2.24</u>  | <u>2.24</u>     | <u>1.12</u>     |          |            |          |          | <u>0</u>        |
| <u>1515</u>  | <u>1520</u>  | <u>1533</u>     | <u>1536</u>     |          |            |          |          | <u>1545</u>     |
| <u>7.00</u>  | <u>6.48</u>  | <u>6.44</u>     | <u>6.50</u>     |          |            |          |          | <u>6.64</u>     |
| <u>0.846</u> | <u>0.879</u> | <u>0.863</u>    | <u>0.849</u>    |          |            |          |          | <u>0.846</u>    |
| <u>16.85</u> | <u>16.47</u> | <u>16.24</u>    | <u>16.07</u>    |          |            |          |          | <u>15.84</u>    |
| <u>131</u>   | <u>352</u>   | <u>&gt; 999</u> | <u>&gt; 999</u> |          |            |          |          | <u>&gt; 999</u> |
| <u>3.83</u>  | <u>3.16</u>  | <u>4.87</u>     | <u>9.23</u>     |          |            |          |          | <u>3.19</u>     |

Sampled By: KWright Sampling Time: 1545 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 2 1/2 vols plus 0.75 gallons. Well purged and sampled using dissolvable bailer nylon rope and atricle shoes. Water has a light green red strong odor.  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, Cloud. Ambient Air Temp (°F): 50°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)

Well ID: 07960-MW23 Well Diameter (inches): 2.0 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  
 \_\_\_\_\_ Private WSW \_\_\_\_\_ Public WSW \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 14.34 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 22.94 Total Well Depth (TWD) (ft.): 37.28 Free Product Thickness (ft.): \_\_\_\_\_  
 3 casing volumes (3 x CV) (gals.): 11.21

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.73     |          |         |          |         |          |          | 0        |
| Time (military)               | 1044    | 1048     |          |         |          |         |          |          | 1055     |
| PH (s.u.)                     | 6.24    | 6.10     |          |         |          |         |          |          | 6.21     |
| Specific Conductivity (µS/cm) | 0.150   | 0.141    |          |         |          |         |          |          | 0.141    |
| Water Temperature (°C)        | 18.70   | 18.53    |          |         |          |         |          |          | 18.15    |
| Turbidity (NTU)               | 40.5    | 291      |          |         |          |         |          |          | 172      |
| Dissolved Oxygen (mg/L)       | 3.15    | 3.24     |          |         |          |         |          |          | 3.10     |

Sampled By: B. Peay Sampling Time: 1055 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged day after 1 well volume plus 1 gallon. Signature: B. Peay



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

## Site Information

Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, cloudy Ambient Air Temp (°F): 59°F

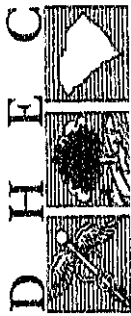
Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXRKFKCE  
 pH  $4.00 \pm 0.10$ : Y or N at 11.5 °C 11.5 Turbidity  $0.0$  NTU  $\pm 1.0$ : Y or N  
 Specific Conductivity  $4.49$  mS/cm  $\pm 10\%$ : Y or N DO  $8.78$  mg/L  $\pm 10\%$ : Y or N  
 Comments: \_\_\_\_\_

## Well Information

Well ID: 07960 - MW24 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection: X Bailer \_\_\_ Pump \_\_\_  
Y MW \_\_\_ IW \_\_\_ RW \_\_\_ Surface Water \_\_\_ Other \_\_\_  
 Private WSW \_\_\_ Public WSW \_\_\_  
 Depth to Groundwater (DTW) (ft.): 22.15 Total Well Depth (TWD) (ft): 41.15 Depth to Free Product (DTP) (ft.): —  
 Length of water column (LWC = TWD - DGW) (ft.): 19.00 1 casing volume (CV = LWC x C) (gals.): 3.09 3 casing volumes (3 x CV) (gals.): 9.29

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.09     |          |         |          |         |          |          | 0        |
| Time (military)               | 1400    | 1405     |          |         |          |         |          |          | 1610     |
| PH (s.u.)                     | 6.38    | 6.38     |          |         |          |         |          |          | 6.43     |
| Specific Conductivity (µS/cm) | 0.369   | 0.370    |          |         |          |         |          |          | 0.390    |
| Water Temperature (°C)        | 17.19   | 17.16    |          |         |          |         |          |          | 17.17    |
| Turbidity (NTU)               | 28.3    | >1000    |          |         |          |         |          |          | >1000    |
| Dissolved Oxygen (mg/L)       | 8.57    | 0.90     |          |         |          |         |          |          | 0.24     |

Sampled By: B Peay Sampling Time: 1610 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged dry after 1 well volume + 1/2 gallon. 07960-FB2 taken  
near MW24 at 1610 using clean gloves and DI H2O from office.  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

## Site Information

Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SDs, Clouds Ambient Air Temp (°F): 50s

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXRKFCE  
 pH  $4.00 \pm 0.10$   or N at 11.59 °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ :  or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  or N  
 Comments: \_\_\_\_\_

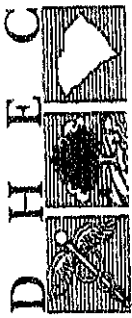
Well ID: 07960 - MW25 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Private WSW  Public WSW \_\_\_\_\_  Bailor  Pump  
 Depth to Groundwater (DTW) (ft.): 19.00 Screened Interval (ft): 24.98 - 39.98 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 21.04 Total Well Depth (TWD) (ft): 40.04 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 3.42 3 casing volumes (3 x CV) (gals.): 10.28

## Purging Data

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.42     | 3.42     |         | 3.42     |         |          |          | 0        |
| Time (military)               | 1305    | 1311     | 1316     |         | 1320     |         |          |          | 1325     |
| PH (s.u.)                     | 6.26    | 6.45     | 6.43     |         | 6.48     |         |          |          | 6.53     |
| Specific Conductivity (µS/cm) | 0.441   | 0.460    | 0.440    |         | 0.445    |         |          |          | 0.427    |
| Water Temperature (°C)        | 18.38   | 18.36    | 18.21    |         | 18.18    |         |          |          | 18.12    |
| Turbidity (NTU)               | 56.2    | 75.0     | 66.7     |         | 69.0     |         |          |          | 93.7     |
| Dissolved Oxygen (mg/L)       | 3.13    | 1.60     | 1.65     |         | 1.68     |         |          |          | 1.42     |

## Sampling Data

Sampled By: B. Peay Sampling Time: 1325 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

## Site Information

Date: 11-16-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SO<sub>2</sub>, Cloudy Ambient Air Temp (°F): 59

## Quality Assurance

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXRKFKCE  
 pH 4.00 ± 0.10: N or N at \_\_\_\_\_ °C 11.59 Turbidity 0.0 NTU ± 1.0: N or N  
 Specific Conductivity 4.49 mS/cm ± 10%: Y or N DO 8.78 mg/L ± 10%: N or N  
 Comments: \_\_\_\_\_

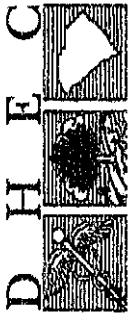
## Well Information

Well ID: 07960 - MW26 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  
 MW  RW  Surface Water  Other \_\_\_\_\_  Bailer  Pump  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 21.00 Screened Interval (ft): 23.74 - 38.74 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 17.19 Total Well Depth (TWD) (ft): 38.79 Free Product Thickness (ft): \_\_\_\_\_  
 3 casing volumes (CV = LWC x C) (gals.): 2.80 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.80     |          |         |          |         |          |          | 0        |
| Time (military)               | 1525    | 1529     |          |         |          |         |          |          | 1540     |
| PH (s.u.)                     | 6.66    | 6.56     |          |         |          |         |          |          | 6.33     |
| Specific Conductivity (µS/cm) | 0.533   | 0.533    |          |         |          |         |          |          | 0.545    |
| Water Temperature (°C)        | 17.70   | 17.57    |          |         |          |         |          |          | 17.42    |
| Turbidity (NTU)               | 6.5     | 7.000    |          |         |          |         |          |          | 6.05     |
| Dissolved Oxygen (mg/L)       | 0.69    | 4.79     |          |         |          |         |          |          | 3.98     |

Sampled By: B Peay Sampling Time: 1540 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 1 well volume plus 2 gallons. Signature: [Signature]





## Underground Storage Tank Management Division Field Data Information Sheet - Sampling

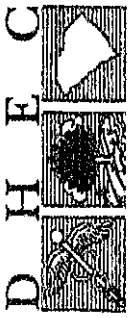
|                       |                                |   |  |
|-----------------------|--------------------------------|---|--|
| Date: <b>11-11-15</b> | Site ID #: 07960               | Site Name: 378 Truck Stop                     | Field Personnel: <b>B. Peay, K. Wright</b> |
| County: Edgefield     | Project Manager: Noelle France | General Weather Conditions: <b>50s, Sunny</b> | Ambient Air Temp (°F): <b>55°F</b>         |

|                                      |   |
|--------------------------------------|---|
| Meter Name: _____<br>Serial #: _____ | Calibration: _____<br>pH 4.00 ± 0.10: <input checked="" type="radio"/> or N at _____ °C <b>16.50</b><br>Turbidity 0.0 NTU ± 1.0: <input checked="" type="radio"/> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <input checked="" type="radio"/> or N<br>DO 8.78 mg/L ± 10%: <input checked="" type="radio"/> or N<br>Comments: _____ |
|--------------------------------------|---|

|  |   |   |
|--|---|---|
| Well ID: <b>07960 - MW27</b><br><input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Well Diameter (inches): <b>20</b><br>Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump | Screened Interval (ft): <b>20.10 - 35.10</b><br>Depth to Free Product (DTP) (ft): _____<br>Total Well Depth (TWD) (ft): <b>35.15</b><br>Free Product Thickness (ft): _____<br>Length of water column (LWC = TWD - DGW) (ft.): <b>13.05</b><br>1 casing volume (CV = LWC x C) (gals.): <b>2.12</b><br>3 casing volumes (3 x CV) (gals.): <b>6.38</b> |
|--|---|---|

|                               | Initial      | 1st Vol.     | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling    |
|-------------------------------|--------------|--------------|----------|---------|----------|---------|----------|----------|-------------|
| Volume Purged (gallons)       | 0            | <b>2.12</b>  |          |         |          |         |          |          | 0           |
| Time (military)               | <b>1025</b>  | <b>1030</b>  |          |         |          |         |          |          | <b>1040</b> |
| PH (s.u.)                     | <b>6.57</b>  | <b>6.52</b>  |          |         |          |         |          |          |             |
| Specific Conductivity (µS/cm) | <b>0.372</b> | <b>0.376</b> |          |         |          |         |          |          |             |
| Water Temperature (°C)        | <b>18.18</b> | <b>18.35</b> |          |         |          |         |          |          |             |
| Turbidity (NTU)               | <b>11.4</b>  | <b>71000</b> |          |         |          |         |          |          |             |
| Dissolved Oxygen (mg/L)       | <b>5.09</b>  | <b>0.87</b>  |          |         |          |         |          |          |             |

|  |                            |                               |
|--|----------------------------|-------------------------------|
| Sampled By: <b>B. Peay</b>                                     | Sampling Time: <b>1040</b> | Duplicate: <b>Y or N</b>      |
| Notes: <b>Well purged dry after 1st volume plus 2 gallons.</b> |                            |                               |
| Signature: <b>[Signature]</b>                                  |                            | If yes, Duplicate Time: _____ |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 70's

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH 4.00 ± 0.10: Y or N at \_\_\_\_\_ °C Turbidity 0.0 NTU ± 1.0: Y or N  
 Specific Conductivity 4.49 mS/cm ± 10%: Y or N DO 8.78 mg/L ± 10%: Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - MW 2 S Well Diameter (inches): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Private WSW  Public WSW \_\_\_\_\_  Bailor  Pump  
 Depth to Groundwater (DTW) (ft.): 20.73 Screened Interval (ft): 25.03 - 40.03 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 20.27 Total Well Depth (TWD) (ft): 41.00 Free Product Thickness (ft): NA  
 1 casing volume (CV = LWC x C) (gals.): 3.30 3 casing volumes (3 x CV) (gals.): 9.90

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.30     | 3.30     | 1.65    | 1.65     |         |          |          | 0        |
| Time (military)               | 1656    | 1657     | 1705     | 1710    | 1713     |         |          |          | 1718     |
| PH (s.u.)                     | 7.54    | 6.05     | 6.01     | 6.47    | 6.12     |         |          |          | 6.03     |
| Specific Conductivity (µS/cm) | 0.220   | 0.216    | 0.202    | 0.188   | 0.213    |         |          |          | 0.214    |
| Water Temperature (°C)        | 16.62   | 16.73    | 16.50    | 16.48   | 16.27    |         |          |          | 16.54    |
| Turbidity (NTU)               | 42.8    | 990      | 647      | > 999   | > 999    |         |          |          | > 999    |
| Dissolved Oxygen (mg/L)       | 3.71    | 3.32     | 4.12     | 6.55    | 5.29     |         |          |          | 4.61     |

Sampled By: K. Wright Sampling Time: 1718 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged and sampled using disposable bailer, nylon rope and nitrile gloves  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

| Date: <b>11-11-15</b>  | Site ID #: 07960                                    | Site Name: 378 Truck Stop  | Field Personnel: B. Peay, K. Wright |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
|--|---|--|-------------------------------------|---------|----------|----------|--------------|---------|----------|----------|----------|---|-------------|--|--|--|--|--|---|-------------|-------------|--|--|--|--|--|-------------|-------------|-------------|--|--|--|--|--|-------------|--------------|--------------|--|--|--|--|--|--------------|--------------|--------------|--|--|--|--|--|--------------|------------|------------|--|--|--|--|--|------------|-------------|-------------|--|--|--|--|--|--------------|
| County: Edgefield  | Project Manager: Noelle France                      | General Weather Conditions: <b>60s, Sunny</b>  | Ambient Air Temp (°F): <b>69</b>    |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Meter Name: _____ Serial #: _____<br>Calibration: _____  |   | Turbidity 0.0 NTU ± 1.0: <b>Y</b> or <b>N</b><br>DO 8.78 mg/L ± 10%: <b>Y</b> or <b>N</b>  |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)<br><b>GXRKFKE</b>  |   | pH 4.00 ± 0.10 <b>(Y)</b> or <b>N</b> at <b>11.56</b> °C<br>Specific Conductivity 4.49 mS/cm ± 10%: <b>Y</b> or <b>N</b><br>Comments: _____  |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Well ID: <b>MW-29</b>  | Well Diameter (inches): <b>2.0</b>                  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW   | Screened Interval (ft): <b>25.15 - 40.15</b>        | Depth to Free Product (DTP) (ft.): _____   |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Depth to Groundwater (DTW) (ft.): <b>21.70</b>   | Total Well Depth (TWD) (ft): <b>40.18</b>           | Free Product Thickness (ft): _____   |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Length of water column (LWC = TWD - DGW) (ft.): <b>18.48</b>   | 1 casing volume (CV = LWC x C) (gals.): <b>3.01</b> | 3 casing volumes (3 x CV) (gals.): <b>9.03</b>   |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Initial</th> <th>1st Vol.</th> <th>2nd Vol.</th> <th>3rd Vol.</th> <th>3½ Vol.</th> <th>4th Vol.</th> <th>5th Vol.</th> <th>Sampling</th> </tr> </thead> <tbody> <tr> <td>0</td> <td><b>3.01</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>1639</b></td> <td><b>1648</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>1656</b></td> </tr> <tr> <td><b>5.96</b></td> <td><b>5.97</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>5.93</b></td> </tr> <tr> <td><b>0.347</b></td> <td><b>0.332</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>0.338</b></td> </tr> <tr> <td><b>20.96</b></td> <td><b>21.03</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>20.73</b></td> </tr> <tr> <td><b>601</b></td> <td><b>295</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>221</b></td> </tr> <tr> <td><b>0.00</b></td> <td><b>0.00</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>0.066</b></td> </tr> </tbody> </table> |   |  |                                     | Initial | 1st Vol. | 2nd Vol. | 3rd Vol.     | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling | 0 | <b>3.01</b> |  |  |  |  |  | 0 | <b>1639</b> | <b>1648</b> |  |  |  |  |  | <b>1656</b> | <b>5.96</b> | <b>5.97</b> |  |  |  |  |  | <b>5.93</b> | <b>0.347</b> | <b>0.332</b> |  |  |  |  |  | <b>0.338</b> | <b>20.96</b> | <b>21.03</b> |  |  |  |  |  | <b>20.73</b> | <b>601</b> | <b>295</b> |  |  |  |  |  | <b>221</b> | <b>0.00</b> | <b>0.00</b> |  |  |  |  |  | <b>0.066</b> |
| Initial  | 1st Vol.  | 2nd Vol.   | 3rd Vol.                            | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| 0  | <b>3.01</b>   |  |                                     |         |          |          | 0            |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <b>1639</b>  | <b>1648</b>   |  |                                     |         |          |          | <b>1656</b>  |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <b>5.96</b>  | <b>5.97</b>   |  |                                     |         |          |          | <b>5.93</b>  |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <b>0.347</b>   | <b>0.332</b>  |  |                                     |         |          |          | <b>0.338</b> |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <b>20.96</b>   | <b>21.03</b>  |  |                                     |         |          |          | <b>20.73</b> |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <b>601</b>   | <b>295</b>  |  |                                     |         |          |          | <b>221</b>   |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| <b>0.00</b>  | <b>0.00</b>   |  |                                     |         |          |          | <b>0.066</b> |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Sampled By: <b>B Peay</b>  |   | Sampling Time: <b>1656</b>   | Duplicate: <b>Y</b> or <b>(N)</b>   |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |
| Notes: <b>Well purged dry after 1 well volume plus 2 gallons.</b><br><b>07960-FB2 taken at 1715 using clean glove and PI 420 from GDR.</b><br>Signature: <i>[Signature]</i>  |   |  |                                     |         |          |          |              |         |          |          |          |   |             |  |  |  |  |  |   |             |             |  |  |  |  |  |             |             |             |  |  |  |  |  |             |              |              |  |  |  |  |  |              |              |              |  |  |  |  |  |              |            |            |  |  |  |  |  |            |             |             |  |  |  |  |  |              |



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright

County: Edgefield Project Manager: Noelle France General Weather Conditions: SUNNY Ambient Air Temp (°F): 70

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_

Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)

pH  $4.00 \pm 0.10$   or N at °C 11.78 Turbidity  $0.0 \text{ NTU} \pm 1.0$   or N

Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$   or N DO  $8.78 \text{ mg/L} \pm 10\%$   Y or  N

Comments: DO 10.70

Well ID: 07960 - MW30 Well Diameter (inches): 2 Conversion Factor (C):  $1'' \text{ well} = 0.047, 2'' \text{ well} = 0.163, 4'' \text{ well} = 0.652$

MW  IW  RW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  Bailor  Pump

Private WSW  Public WSW

Depth to Groundwater (DTW) (ft.): 26.60 Depth to Free Product (DTP) (ft.): NP

Length of water column (LWC = TWD - DGW) (ft.): 18.46 Total Well Depth (TWD) (ft.): 45.06 Free Product Thickness (ft.): NA

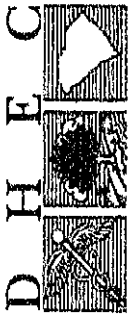
1 casing volume (CV = LWC x C) (gals.): 3.00 3 casing volumes (3 x CV) (gals.): 9.00

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 3.00     | 3.00     | 1.50    | 1.50     |         |          |          | 0        |
| Time (military)               | 1225    | 1235     | 1242     | 1248    | 1254     |         |          |          | 1257     |
| PH (s.u.)                     | 7.01    | 6.76     | 6.74     | 6.81    | 6.88     |         |          |          | 6.93     |
| Specific Conductivity (µS/cm) | 0.857   | 0.882    | 0.863    | 0.840   | 0.774    |         |          |          | 0.765    |
| Water Temperature (°C)        | 18.13   | 17.78    | 17.63    | 17.42   | 17.40    |         |          |          | 17.39    |
| Turbidity (NTU)               | > 999   | 851      | > 999    | > 999   | > 999    |         |          |          | > 999    |
| Dissolved Oxygen (mg/L)       | 3.26    | 3.70     | 2.84     | 2.58    | 3.18     |         |          |          | 3.41     |

Sampled By: Khwright Sampling Time: 1257 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_

Notes: well purged and sampled using disposable bailer, nylon rope and nitrile gloves

Signature: [Signature]



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

|                   |                                |  |                                     |
|-------------------|--------------------------------|--|-------------------------------------|
| Date: 11-10-15    | Site ID #: 07960               | Site Name: 378 Truck Stop              | Field Personnel: B. Peay, K. Wright |
| County: Edgefield | Project Manager: Noelle France | General Weather Conditions: 50% Cloudy | Ambient Air Temp (°F): 50s          |

**Quality Assurance**

|   |           |   |
|---|-----------|---|
| Meter Name:   | Serial #: | Calibration:  |
| Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) | 6XRKFKCE  | pH 4.00 ± 0.10: <input checked="" type="radio"/> or N at °C 11.59      Turbidity 0.0 NTU ± 1.0: <input checked="" type="radio"/> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <input checked="" type="radio"/> or N      DO 8.78 mg/L ± 10%: <input checked="" type="radio"/> or N |

**Well Information**

|  |  |  |  |
|--|--|--|--|
| Well ID: 07960 - MW31  | Well Diameter (inches): 2.0                  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other | Screened Interval (ft): 28.96 - 43.96        | Depth to Free Product (DTP) (ft):  |  |
| Private WSW    Public WSW  | Total Well Depth (TWD) (ft): 44.05           | Free Product Thickness (ft):   |  |
| Depth to Groundwater (DTW) (ft.): 26.56  | 1 casing volume (CV = LWC x C) (gals.): 2.85 | 3 casing volumes (3 x CV) (gals.): 8.55                                  |  |

**Purging Data**

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 2.85     | 2.85     |          |         |          |          | 0        |
| Time (military)               | 1335    | 1338     | 1343     |          |         |          |          | 1350     |
| PH (s.u.)                     | 6.27    | 6.31     | 6.35     |          |         |          |          | 6.33     |
| Specific Conductivity (µS/cm) | 1.38    | 1.49     | 1.49     |          |         |          |          | 1.48     |
| Water Temperature (°C)        | 18.21   | 18.22    | 18.06    |          |         |          |          | 17.98    |
| Turbidity (NTU)               | 15.7    | 314      | 807      |          |         |          |          | 490      |
| Dissolved Oxygen (mg/L)       | 0.00    | 0.11     | 0.21     |          |         |          |          |          |

**Sampling Data**

|   |                     |  |                              |
|---|---------------------|--|------------------------------|
| Sampled By: B Peay  | Sampling Time: 1350 | Duplicate: <input checked="" type="radio"/> or N | If yes, Duplicate Time: 1350 |
| Notes: Well purged dry after 2 well volumes. 07960 - DUP 1 taken from MW31 at 1350. |                     |  |                              |
| Signature: <i>[Signature]</i>   |                     |  |                              |



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-12-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, cloudy Ambient Air Temp (°F): 51°

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) 6XRKFKCF  
 pH 4.00 ± 0.10: 0 or N at °C 12.01 Turbidity 0.0 NTU ± 1.0: 0 or N  
 Specific Conductivity 4.49 mS/cm ± 10%: 0 or N DO 8.78 mg/L ± 10%: 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - TW1 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other TW  Bailer  Pump  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 21.02 Screened Interval (ft.): 58.27 - 63.27 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 42.33 Total Well Depth (TWD) (ft): 63.35 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 6.89 3 casing volumes (3 x CV) (gals.): 20.6

|                               | Initial      | 1st Vol.     | 2nd Vol.     | 2½ Vol.      | 3rd Vol.     | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|---------|----------|----------|--------------|
| Volume Purged (gallons)       | 0            | <u>6.89</u>  | <u>6.89</u>  | <u>3.44</u>  | <u>3.44</u>  |         |          |          | 0            |
| Time (military)               | <u>1015</u>  | <u>1035</u>  | <u>1054</u>  | <u>1105</u>  | <u>1112</u>  |         |          |          | <u>1115</u>  |
| PH (s.u.)                     | <u>6.81</u>  | <u>6.83</u>  | <u>6.82</u>  | <u>6.78</u>  | <u>6.56</u>  |         |          |          | <u>6.79</u>  |
| Specific Conductivity (µS/cm) | <u>0.407</u> | <u>0.432</u> | <u>0.431</u> | <u>0.430</u> | <u>0.430</u> |         |          |          | <u>0.426</u> |
| Water Temperature (°C)        | <u>17.80</u> | <u>18.57</u> | <u>18.43</u> | <u>18.12</u> | <u>18.09</u> |         |          |          | <u>19.01</u> |
| Turbidity (NTU)               | <u>13.7</u>  | <u>69.1</u>  | <u>66.3</u>  | <u>59.0</u>  | <u>55.0</u>  |         |          |          | <u>66</u>    |
| Dissolved Oxygen (mg/L)       | <u>0.50</u>  | <u>1.86</u>  | <u>1.78</u>  | <u>1.75</u>  | <u>1.69</u>  |         |          |          | <u>0.63</u>  |

Sampled By: S. Rooy Sampling Time: 1115 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Purged well with bailer. 07960-FB4 taken at 1120 using DI H2O from office. Signature: [Signature]  
 DHEC 04-23 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

|   |  |   |  |   |  |  |  |
|---|--|---|--|---|--|--|--|
| Date: <b>11-9-15</b>  |  | Site ID #: 07960                                    |  | Site Name: 378 Truck Stop   |  | Field Personnel: <b>B. Peay, K. Wright</b> |  |
| County: Edgefield   |  | Project Manager: Noelle France                      |  | General Weather Conditions: <b>SO<sub>2</sub> Rain</b>  |  | Ambient Air Temp (°F): <b>50°</b>          |  |
| Meter Name:   |  | Serial #:   |  | Calibration:  |  |  |  |
| Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)   |  | <b>0XRUXFKCE</b>                                    |  | pH 4.00 ± 0.10: <b>Y</b> or N at <b>°C 11.71</b>  |  | Turbidity 0.0 NTU ± 1.0: <b>Y</b> or N     |  |
| Specific Conductivity 4.49 mS/cm ± 10%: <b>Y</b> or N   |  | Comments: <b>Turb 9.8 ntu</b>                       |  | DO 8.78 mg/L ± 10%: <b>Y</b> or N   |  |  |  |
| Well ID: 07960 - <b>TW2</b>   |  | Well Diameter (inches): <b>2.0</b>                  |  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection: <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Pump |  |  |  |
| <input type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other <input type="checkbox"/> Public WSW |  | Screened Interval (ft.): <b>75.23 - 80.23</b>       |  | Depth to Free Product (DTP) (ft.): <b>—</b>   |  |  |  |
| Depth to Groundwater (DTW) (ft.): <b>2467</b>   |  | Total Well Depth (TWD) (ft.): <b>80.29</b>          |  | Free Product Thickness (ft.): <b>—</b>  |  |  |  |
| Length of water column (LWC = TWD - DGW) (ft.): <b>55.62</b>  |  | 1 casing volume (CV = LWC x C) (gals.): <b>9.01</b> |  | 3 casing volumes (3 x CV) (gals.): <b>27.03</b>   |  |  |  |
| Initial   |  | 1st Vol.  |  | 2nd Vol.  |  | 3rd Vol.                                   |  |
| Volume Purged (gallons)   |  | 9.01  |  |   |  | 4th Vol.                                   |  |
| Time (military)   |  | 1453 1500   |  |   |  | 5th Vol.                                   |  |
| PH (s.u.)   |  | 10.33 10.92   |  |   |  | Sampling                                   |  |
| Specific Conductivity (µS/cm)   |  | 0.332 0.532   |  |   |  | 0  |  |
| Water Temperature (°C)  |  | 16.78 18.38   |  |   |  | 1513                                       |  |
| Turbidity (NTU)   |  | 70.5 58.1   |  |   |  | 10.68                                      |  |
| Dissolved Oxygen (mg/L)   |  | 2.77 2.22   |  |   |  | 0.521                                      |  |
| Sampled By: <b>B. Peay</b>  |  | Sampling Time: <b>1513</b>                          |  | Duplicate: <b>Y</b> or <b>N</b>   |  | If yes, Duplicate Time: <b>—</b>           |  |
| Notes: <b>Purged with Monsoon pump and controller using 3/8 tubing, well purged dry after 1 well volume.</b>  |  |   |  |   |  |  |  |
| Signature: <b>[Signature]</b>   |  |   |  |   |  |  |  |



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

| Date: <u>11-9-15</u>  | Site ID #: <u>07960</u>                             | Site Name: <u>378 Truck Stop</u>   | Field Personnel: <u>B. Peay, K. Wright</u>   |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
|---|---|--|--|---------|----------|----------|--------------|---------|----------|----------|----------|-------------------------|----------|--|--|--|--|--|----------|-----------------|-------------|--|--|--|--|--|-------------|-----------|--------------|--|--|--|--|--|--------------|-------------------------------|--------------|--|--|--|--|--|--------------|------------------------|--------------|--|--|--|--|--|--------------|-----------------|-------------|--|--|--|--|--|-------------|-------------------------|-------------|--|--|--|--|--|-------------|
| County: <u>Edgefield</u>  | Project Manager: <u>Noelle France</u>               | General Weather Conditions: <u>50s, light rain</u>   | Ambient Air Temp (°F): <u>50°</u>  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Meter Name: _____ Serial #: _____ Calibration: _____<br>Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)   |   | pH $4.00 \pm 0.10$ : <u>(N)</u> or N at <u>°C 16.71</u> Turbidity $0.0 \text{ NTU} \pm 1.0$ : <u>Y</u> or <u>(N)</u><br>Specific Conductivity $4.49 \text{ mS/cm} \pm 10\%$ : <u>(N)</u> or N DO $8.78 \text{ mg/L} \pm 10\%$ : <u>(N)</u> or N<br>Comments: <u>Turbidity: 98ntu</u> |  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Well ID: <u>07960 - TW3</u>   | Well Diameter (inches): <u>2.0</u>                  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652   | Method of Purging/Sample Collection:<br><input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| <input type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Other  | Screened Interval (ft): <u>75.62 - 80.62</u>        | Depth to Free Product (DTP) (ft.): <u>—</u>  |  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW  | Total Well Depth (TWD) (ft): <u>80.69</u>           | Free Product Thickness (ft): <u>—</u>  |  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Depth to Groundwater (DTW) (ft.): <u>20.77</u>  | 1 casing volume (CV = LWC x C) (gals.): <u>9.70</u> | 3 casing volumes (3 x CV) (gals.): <u>29.1</u>   |  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Initial</th> <th>1st Vol.</th> <th>2nd Vol.</th> <th>3rd Vol.</th> <th>3½ Vol.</th> <th>4th Vol.</th> <th>5th Vol.</th> <th>Sampling</th> </tr> </thead> <tbody> <tr> <td>Volume Purged (gallons)</td> <td><u>0</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>0</u></td> </tr> <tr> <td>Time (military)</td> <td><u>1400</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>1425</u></td> </tr> <tr> <td>PH (s.u.)</td> <td><u>11.33</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>11.21</u></td> </tr> <tr> <td>Specific Conductivity (µS/cm)</td> <td><u>0.852</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>0.794</u></td> </tr> <tr> <td>Water Temperature (°C)</td> <td><u>16.86</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>17.54</u></td> </tr> <tr> <td>Turbidity (NTU)</td> <td><u>1.86</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>22.9</u></td> </tr> <tr> <td>Dissolved Oxygen (mg/L)</td> <td><u>1.33</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>0.61</u></td> </tr> </tbody> </table> |   |  |  | Initial | 1st Vol. | 2nd Vol. | 3rd Vol.     | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling | Volume Purged (gallons) | <u>0</u> |  |  |  |  |  | <u>0</u> | Time (military) | <u>1400</u> |  |  |  |  |  | <u>1425</u> | PH (s.u.) | <u>11.33</u> |  |  |  |  |  | <u>11.21</u> | Specific Conductivity (µS/cm) | <u>0.852</u> |  |  |  |  |  | <u>0.794</u> | Water Temperature (°C) | <u>16.86</u> |  |  |  |  |  | <u>17.54</u> | Turbidity (NTU) | <u>1.86</u> |  |  |  |  |  | <u>22.9</u> | Dissolved Oxygen (mg/L) | <u>1.33</u> |  |  |  |  |  | <u>0.61</u> |
| Initial   | 1st Vol.  | 2nd Vol.   | 3rd Vol.   | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Volume Purged (gallons)   | <u>0</u>  |  |  |         |          |          | <u>0</u>     |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Time (military)   | <u>1400</u>   |  |  |         |          |          | <u>1425</u>  |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| PH (s.u.)   | <u>11.33</u>  |  |  |         |          |          | <u>11.21</u> |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Specific Conductivity (µS/cm)   | <u>0.852</u>  |  |  |         |          |          | <u>0.794</u> |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Water Temperature (°C)  | <u>16.86</u>  |  |  |         |          |          | <u>17.54</u> |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Turbidity (NTU)   | <u>1.86</u>   |  |  |         |          |          | <u>22.9</u>  |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Dissolved Oxygen (mg/L)   | <u>1.33</u>   |  |  |         |          |          | <u>0.61</u>  |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Sampled By: <u>B. Peay</u>  |   | Sampling Time: <u>1425</u>   | Duplicate: <u>Y</u> or <u>(N)</u> If yes, Duplicate Time: <u>—</u>   |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Notes: <u>Purge with Monsoon pump and controller 3/8 tubing. Well purged dry after 1 well volume. plus 2 gallons.</u>   |   |  |  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |
| Signature: <u>[Signature]</u>   |   |  |  |         |          |          |              |         |          |          |          |                         |          |  |  |  |  |  |          |                 |             |  |  |  |  |  |             |           |              |  |  |  |  |  |              |                               |              |  |  |  |  |  |              |                        |              |  |  |  |  |  |              |                 |             |  |  |  |  |  |             |                         |             |  |  |  |  |  |             |





# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 40s, Sunny Ambient Air Temp (°F): 49°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH 4.00 ± 0.10: 0 or N at \_\_\_\_\_ °C 16.50 Turbidity 0.0 NTU ± 1.0: 0 or N  
 Specific Conductivity 4.49 mS/cm ± 10%: Y or N DO 8.78 mg/L ± 10%: Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - TW4 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  
 MW    IW    RW    Surface Water X Other \_\_\_\_\_ X Bailor \_\_\_\_\_ Pump \_\_\_\_\_  
 Private WSW \_\_\_\_\_ Public WSW \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): 13.39 Screened Interval (ft): 63.56 - 68.56 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 55.21 Total Well Depth (TWD) (ft): 68.60 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 8.99 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 8.99     |          |          |         |          |          | 0        |
| Time (military)               | 0901    | 0930     |          |          |         |          |          | 0945     |
| PH (s.u.)                     | 7.76    | 8.59     |          |          |         |          |          | 9.16     |
| Specific Conductivity (µS/cm) | 0.253   | 0.360    |          |          |         |          |          | 0.362    |
| Water Temperature (°C)        | 16.26   | 16.71    |          |          |         |          |          | 17.09    |
| Turbidity (NTU)               | 0.0     | 175      |          |          |         |          |          | 715      |
| Dissolved Oxygen (mg/L)       | 2.01    | 2.10     |          |          |         |          |          | 3.91     |

Sampled By: B. Peay Sampling Time: 0945 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Purge well with bailer. Well purged dry after 1 well volume + 2 gallons. Signature: B. Peay  
 DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Date: 11/11/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 70's

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH770 STW / H00T5LN  
 pH 4.00 ± 0.10:  or N at °C 11.78 Turbidity 0.0 NTU ± 1.0:  or N  
 Specific Conductivity 4.49 mS/cm ± 10%:  or N DO 8.78 mg/L ± 10%: Y or   
 Comments: DO 10.70

Well ID: 07960 - TW5 Well Diameter (Inches): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW  IW  RW  Surface Water  Other TW Method of Purging/Sample Collection:  Bailor  Pump  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): 25.50 Screened Interval (ft): 53.38 - 58.38 Depth to Free Product (DTP) (ft.): NP  
 Length of water column (LWC = TWD - DGW) (ft.): 32.90 Total Well Depth (TWD) (ft): 58.40 Free Product Thickness (ft): na  
 1 casing volume (CV = LWC x C) (gals.): 5.36 3 casing volumes (3 x CV) (gals.): 16.08

| Initial                       | 1st Vol.     | 2nd Vol.                    | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling    |
|-------------------------------|--------------|-----------------------------|---------|----------|---------|----------|----------|-------------|
| Volume Purged (gallons)       | 0            | <del>5.36</del> <u>7.68</u> |         |          |         |          |          | 0           |
| Time (military)               | <u>1100</u>  |                             |         |          |         |          |          | <u>1125</u> |
| PH (s.u.)                     | <u>2.53</u>  |                             |         |          |         |          |          |             |
| Specific Conductivity (µS/cm) | <u>0.433</u> |                             |         |          |         |          |          |             |
| Water Temperature (°C)        | <u>12.87</u> |                             |         |          |         |          |          |             |
| Turbidity (NTU)               | <u>399</u>   |                             |         |          |         |          |          |             |
| Dissolved Oxygen (mg/L)       | <u>5.27</u>  |                             |         |          |         |          |          |             |

Sampled By: K Wright Sampling Time: 1125 Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 1 volume plus 2 gallons. Well purged and sampled using disposable bailer, nylon rope and nitrile gloves  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-10-15 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SOs, cloudy Ambient Air Temp (°F): 59°F

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) GXR KFKE  
 pH  $4.00 \pm 0.10$ : 0 or N at  $^{\circ}\text{C}$  11.59 Turbidity  $0.0 \text{ NTU} \pm 1.0$ : 0 or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : 0 or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - TW6 Well Diameter (inches): 2.0 Conversion Factor (C):  $1'' \text{ well} = 0.047, 2'' \text{ well} = 0.163, 4'' \text{ well} = 0.652$   
 MW  Private WSW  Public WSW  Surface Water  Other \_\_\_\_\_ Method of Purging/Sample Collection:  
 Depth to Groundwater (DTW) (ft.): 24.16 Total Well Depth (TWD) (ft.): 58.65 Free Product Thickness (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 34.49 1 casing volume (CV = LWC x C) (gals.): 5.62 3 casing volumes (3 x CV) (gals.): 16.86

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 5.62     |          |         |          |         |          |          | 0        |
| Time (military)               | 1450    | 1459     |          |         |          |         |          |          | 1510     |
| PH (s.u.)                     | 6.85    | 6.76     |          |         |          |         |          |          |          |
| Specific Conductivity (µS/cm) | 0.324   | 0.271    |          |         |          |         |          |          |          |
| Water Temperature (°C)        | 17.66   | 17.56    |          |         |          |         |          |          |          |
| Turbidity (NTU)               | 49.4    | 8.55     |          |         |          |         |          |          |          |
| Dissolved Oxygen (mg/L)       | 3.85    | 0.52     |          |         |          |         |          |          |          |

Sampled By: B. Peay Sampling Time: 1510 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Well purged dry after 1 well volume. Purged well will fill bailer  
 Signature: [Signature]  
 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 DHEC 0423 (10/2012)



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Site ID #

|   |                                |   |   |                               |         |          |          |          |
|---|--------------------------------|---|---|-------------------------------|---------|----------|----------|----------|
| Date: <b>11-10-15</b>   | Site ID #: 07960               | Site Name: 378 Truck Stop   | Field Personnel: <b>B. Peay, K. Wright</b>  |                               |         |          |          |          |
| County: Edgefield   | Project Manager: Noelle France | General Weather Conditions: <b>50s, Cloudy</b>  | Ambient Air Temp (°F): <b>50°F</b>  |                               |         |          |          |          |
| Meter Name: _____ Serial #: _____ Calibration: _____<br>Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)   |                                | pH 4.00 ± 0.10 <input checked="" type="radio"/> or N at <b>°C 11.59</b><br>Turbidity 0.0 NTU ± 1.0: <input checked="" type="radio"/> or N<br>Specific Conductivity 4.49 mS/cm ± 10% <input checked="" type="radio"/> or N<br>DO 8.78 mg/L ± 10% <input checked="" type="radio"/> or N | Method of Purging/Sample Collection:<br>Bailer <input checked="" type="checkbox"/> Pump _____ |                               |         |          |          |          |
| Well ID: <b>07960 - TW7</b> Well Diameter (inches): <b>2.0</b><br>Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  |                                |   |   |                               |         |          |          |          |
| MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input checked="" type="checkbox"/> Surface Water <input checked="" type="checkbox"/> Other <b>TW</b><br>Private WSW <input type="checkbox"/> Public WSW _____ |                                | Screened Interval (ft): <b>53.94 - 58.94</b><br>Depth to Free Product (DTP) (ft.): _____  | Free Product Thickness (ft): _____  |                               |         |          |          |          |
| Depth to Groundwater (DTW) (ft.): <b>20.35</b>  |                                | Total Well Depth (TWD) (ft): <b>59.65</b>   | Free Product Thickness (ft): _____  |                               |         |          |          |          |
| Length of water column (LWC = TWD - DGW) (ft.): <b>39.30</b>  |                                | 1 casing volume (CV = LWC x C) (gals.): <b>6.40</b>   | 3 casing volumes (3 x CV) (gals.): <b>19.20</b>   |                               |         |          |          |          |
| Volume Purged (gallons)   | Initial                        | 1st Vol.  | 2nd Vol.  | 3rd Vol.                      | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|   | 0                              | 6.40  |   |                               |         |          |          | 0        |
| Time (military)   | 0810                           | 0814  |   |                               |         |          |          | 0820     |
| PH (s.u.)   | 12.44                          | 12.48   |   |                               |         |          |          | 12.47    |
| Specific Conductivity (µS/cm)   | 7.87                           | 7.95  |   |                               |         |          |          | 7.87     |
| Water Temperature (°C)  | 16.27                          | 17.10   |   |                               |         |          |          | 17.37    |
| Turbidity (NTU)   | 44.1                           | 107.0   |   |                               |         |          |          | 46.5     |
| Dissolved Oxygen (mg/L)   | 2.61                           | 2.77  |   |                               |         |          |          | 2.81     |
| Sampled By: <b>B. Peay</b>  |                                | Sampling Time: <b>0820</b>  | Duplicate: <b>Y or (N)</b>  | If yes, Duplicate Time: _____ |         |          |          |          |
| Notes: <b>Purged well using submersible Monsoon pump with controller and 3/8 tubing. Well purged dry after well volume plus 2 gallons.</b>  |                                |   |   |                               |         |          |          |          |
| Signature: _____  |                                |   | Signature: <b>[Signature]</b>   |                               |         |          |          |          |



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

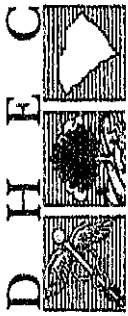
Date: 11-10-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: SOs, Rads Ambient Air Temp (°F): 50

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) OX RUX FKCE  
 pH  $4.00 \pm 0.10$ : Y or N at 11.59 °C  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : Y or N  
 DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - TW8 Well Diameter (inches): 2.0 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 MW IW RW Surface Water Other Public WSW Method of Purging/Sample Collection: Bailer  Pump  
 Depth to Groundwater (DTW) (ft.): 20.06 Screened Interval (ft): 53.53 - 58.53 Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 38.14 Total Well Depth (TWD) (ft): 58.50 Free Product Thickness (ft): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): 20.06 3 casing volumes (3 x CV) (gals.): 18.79

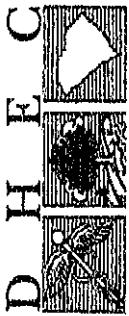
|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 6.26     |          |         |          |         |          |          | 0        |
| Time (military)               | 1120    | 1128     |          |         |          |         |          |          | 1139     |
| PH (s.u.)                     | 12.09   | 11.82    |          |         |          |         |          |          | 11.98    |
| Specific Conductivity (µS/cm) | 3.17    | 1.69     |          |         |          |         |          |          | 2.85     |
| Water Temperature (°C)        | 17.57   | 18.23    |          |         |          |         |          |          | 18.26    |
| Turbidity (NTU)               | 28.7    | 18.2     |          |         |          |         |          |          | 5.3      |
| Dissolved Oxygen (mg/L)       | 2.65    | 4.87     |          |         |          |         |          |          | 2.28     |

Sampled By: B. Peay Sampling Time: 1139 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Purged well using submersible Monsoon Pump with 3/8 tubing. Well purged dry after well volume plus 1 gallon. Re-calibrated Horiba to check accuracy.  
 Signature: B. Peay



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

| Date: <b>11-9-15</b>  | Site ID #: <b>07960</b>  | Site Name: <b>378 Truck Stop</b>   | Field Personnel: <b>B. Peay, K. Wright</b>  |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
|---|--|--|---|---------|----------|----------|----------|---------|----------|----------|----------|-------------------------|------|------|------|--|--|--|---|-----------------|------|------|------|--|--|--|------|-----------|------|------|------|--|--|--|--|-------------------------------|-------|-------|-------|--|--|--|--|------------------------|-------|-------|-------|--|--|--|--|-----------------|-----|------|------|--|--|--|--|-------------------------|------|------|------|--|--|--|--|
| County: <b>Edgefield</b>  | Project Manager: <b>Noelle France</b>                                    | General Weather Conditions: <b>SO<sub>2</sub>, 1.54 rain</b>   | Ambient Air Temp (°F): <b>50°</b>           |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Meter Name: <b>Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)</b><br>Serial #: <b>6XRWFKCE</b>   |  | Calibration:<br>pH 4.00 ± 0.10: <input checked="" type="radio"/> or N at <b>°C 11.71</b> Turbidity 0.0 NTU ± 1.0: <b>Y</b> or <input checked="" type="radio"/> N<br>Specific Conductivity 4.49 mS/cm ± 10%: <input checked="" type="radio"/> or N DO 8.78 mg/L ± 10%: <input checked="" type="radio"/> or N<br>Comments: <b>Turbidity 98 ntu</b> |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Well ID: <b>07960 - TW9</b>   | Well Diameter (inches): <b>2.0</b>                                       | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump  |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| <input type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Other <b>TW</b>  | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): <b>75.12 - 80.12</b>  | Depth to Free Product (DTP) (ft.): <b>—</b> |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Depth to Groundwater (DTW) (ft.): <b>20.38</b>  | Total Well Depth (TWD) (ft): <b>80.15</b>                                | Free Product Thickness (ft): <b>—</b>  |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Length of water column (LWC = TWD - DGW) (ft.):   | 1 casing volume (CV = LWC x C) (gals.): <b>9.74</b>                      | 3 casing volumes (3 x CV) (gals.): <b>29.22</b>  |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Initial</th> <th>1st Vol.</th> <th>2nd Vol.</th> <th>3rd Vol.</th> <th>3½ Vol.</th> <th>4th Vol.</th> <th>5th Vol.</th> <th>Sampling</th> </tr> </thead> <tbody> <tr> <td>Volume Purged (gallons)</td> <td>9.74</td> <td>9.74</td> <td>4.87</td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>Time (military)</td> <td>1640</td> <td>1651</td> <td>1659</td> <td></td> <td></td> <td></td> <td>1703</td> </tr> <tr> <td>PH (s.u.)</td> <td>7.76</td> <td>7.29</td> <td>7.15</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Specific Conductivity (µS/cm)</td> <td>0.506</td> <td>0.533</td> <td>0.539</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Water Temperature (°C)</td> <td>15.77</td> <td>16.38</td> <td>16.63</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Turbidity (NTU)</td> <td>298</td> <td>41.3</td> <td>23.6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dissolved Oxygen (mg/L)</td> <td>5.31</td> <td>0.89</td> <td>0.66</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |  |  |   | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling | Volume Purged (gallons) | 9.74 | 9.74 | 4.87 |  |  |  | 0 | Time (military) | 1640 | 1651 | 1659 |  |  |  | 1703 | PH (s.u.) | 7.76 | 7.29 | 7.15 |  |  |  |  | Specific Conductivity (µS/cm) | 0.506 | 0.533 | 0.539 |  |  |  |  | Water Temperature (°C) | 15.77 | 16.38 | 16.63 |  |  |  |  | Turbidity (NTU) | 298 | 41.3 | 23.6 |  |  |  |  | Dissolved Oxygen (mg/L) | 5.31 | 0.89 | 0.66 |  |  |  |  |
| Initial   | 1st Vol.   | 2nd Vol.   | 3rd Vol.                                    | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Volume Purged (gallons)   | 9.74   | 9.74   | 4.87  |         |          |          | 0        |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Time (military)   | 1640   | 1651   | 1659  |         |          |          | 1703     |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| PH (s.u.)   | 7.76   | 7.29   | 7.15  |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Specific Conductivity (µS/cm)   | 0.506  | 0.533  | 0.539                                       |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Water Temperature (°C)  | 15.77  | 16.38  | 16.63                                       |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Turbidity (NTU)   | 298  | 41.3   | 23.6  |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Dissolved Oxygen (mg/L)   | 5.31   | 0.89   | 0.66  |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Sampled By: <b>B. Peay</b>  | Sampling Time: <b>1703</b>   | Duplicate: <b>Y</b> or <input checked="" type="radio"/> N  | If yes, Duplicate Time: <b>—</b>            |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Notes: <b>Purge well using Monsoon pump with controller 78 tubing. Well did not purge dry.</b>  |  |  |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| Signature: <b>B. Peay</b>   |  |  | Signature: <b>K. Wright</b>                 |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL   |  |  |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |
| DHEC 0423 (10/2012)   |  |  |   |         |          |          |          |         |          |          |          |                         |      |      |      |  |  |  |   |                 |      |      |      |  |  |  |      |           |      |      |      |  |  |  |  |                               |       |       |       |  |  |  |  |                        |       |       |       |  |  |  |  |                 |     |      |      |  |  |  |  |                         |      |      |      |  |  |  |  |



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Date: 11-12-15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: 50s, Sunny Ambient Air Temp (°F): 51

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH 4.00 ± 0.10:  Y or N at \_\_\_\_\_ °C 12.01 Turbidity 0.0 NTU ± 1.0:  Y or N  
 Specific Conductivity 4.49 mS/cm ± 10%:  Y or N DO 8.78 mg/L ± 10%:  Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - RW1 Well Diameter (inches): 4.0 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW \_\_\_\_\_  
 Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 Screened Interval (ft): 15 - 30 Depth to Free Product (DTP) (ft): \_\_\_\_\_  
 Total Well Depth (TWD) (ft): 29.20 Free Product Thickness (ft): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): 23.30 1 casing volume (CV = LWC x C) (gals.): 3.79 3 casing volumes (3 x CV) (gals.): 11.37

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       | 15.19    |          |          |         |          |          | 0        |
| Time (military)               | 0850    | 0910     |          |          |         |          |          | 0920     |
| PH (s.u.)                     | 6.46    | 5.35     |          |          |         |          |          | 5.29     |
| Specific Conductivity (µS/cm) | 0.075   | 0.058    |          |          |         |          |          | 0.056    |
| Water Temperature (°C)        | 20.85   | 20.40    |          |          |         |          |          | 20.14    |
| Turbidity (NTU)               | 1.7     | 739      |          |          |         |          |          | 666      |
| Dissolved Oxygen (mg/L)       | 5.21    | 4.00     |          |          |         |          |          | 5.00     |

Sampled By: B. Peay Sampling Time: 0920 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well purged dry after 1 well volume plus 5 gallons  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

## Site Information

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: overcast Ambient Air Temp (°F): 60's

## Underground Storage Tank Information

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 PH  $4.00 \pm 0.10$  or N at  $^{\circ}\text{C}$  11.28 Turbidity  $0.0 \text{ NTU} \pm 1.0$  or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$  or N DO  $8.78 \text{ mg/L} \pm 10\%$  Y or N  
 Comments: DO 7.80

## Well Information

Well ID: 07960 - WZGAL Well Diameter (inches): — Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652  
 Method of Purging/Sample Collection: Bailer  Pump  
 MW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Total Well Depth (TWD) (ft.): \_\_\_\_\_ Free Product Thickness (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

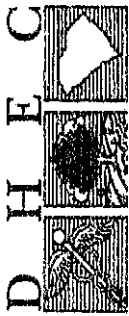
## Sampling Data

|                               | Initial      | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling                   |
|-------------------------------|--------------|----------|----------|---------|----------|---------|----------|----------|----------------------------|
| Volume Purged (gallons)       | 0            |          |          |         |          |         |          |          | 0                          |
| Time (military)               | <u>0643</u>  |          |          |         |          |         |          |          | <u>1055</u><br><u>0958</u> |
| PH (s.u.)                     | <u>5.30</u>  |          |          |         |          |         |          |          | <u>7.05</u>                |
| Specific Conductivity (µS/cm) | <u>0.591</u> |          |          |         |          |         |          |          | <u>0.499</u>               |
| Water Temperature (°C)        | <u>12.45</u> |          |          |         |          |         |          |          | <u>15.01</u>               |
| Turbidity (NTU)               | <u>3.6</u>   |          |          |         |          |         |          |          | <u>1.7</u>                 |
| Dissolved Oxygen (mg/L)       | <u>7.98</u>  |          |          |         |          |         |          |          | <u>4.69</u>                |

## Sampling Data

Sampled By: K. Wright Sampling Time: 0958/1058 Duplicate: Y or N  
 Notes: Sampled obtained from faucet at gas station. Water allowed to run and purge for 60 minutes before collecting. Signature: \_\_\_\_\_





**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: overcast Ambient Air Temp (°F): 60s

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Meter: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  
 pH  $4.00 \pm 0.10$ : Y or N at \_\_\_\_\_ °C Turbidity  $0.0 \text{ NTU} \pm 1.0$ : Y or N  
 Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : Y or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or N  
 Comments: \_\_\_\_\_

Well ID: 07960 - WSW / Post Well Diameter (inches): 4  
 Method of Purging/Sample Collection: \_\_\_\_\_  
 Conversion Factor (C): 1" well =  $0.047$ , 2" well =  $0.163$ , 4" well =  $0.652$   
 \_\_\_\_\_ MW \_\_\_\_\_ IW \_\_\_\_\_ RW \_\_\_\_\_ Surface Water \_\_\_\_\_ Other \_\_\_\_\_  
 \_\_\_\_\_ Private WSW \_\_\_\_\_ Public WSW

Depth to Groundwater (DTW) (ft.): \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ Total Well Depth (TWD) (ft.): \_\_\_\_\_ Free Product Thickness (ft.): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

|                               | Initial        | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling       |
|-------------------------------|----------------|----------|----------|----------|---------|----------|----------|----------------|
| Volume Purged (gallons)       | 0              |          |          |          |         |          |          | 0              |
| Time (military)               | <u>1010120</u> |          |          |          |         |          |          | <u>1020120</u> |
| PH (s.u.)                     | <u>7.19</u>    |          |          |          |         |          |          | <u>7.29</u>    |
| Specific Conductivity (µS/cm) | <u>0.476</u>   |          |          |          |         |          |          | <u>0.479</u>   |
| Water Temperature (°C)        | <u>13.61</u>   |          |          |          |         |          |          | <u>13.35</u>   |
| Turbidity (NTU)               | <u>14.1</u>    |          |          |          |         |          |          | <u>0.7</u>     |
| Dissolved Oxygen (mg/L)       | <u>9.21</u>    |          |          |          |         |          |          | <u>6.59</u>    |

Sampled By: K. Wright Sampling Time: 1020 1120 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Samples collected from faucet at outlet of carbon filter. Water allowed to run / purge for 10 minutes  
 Signature: \_\_\_\_\_



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

### Site Information

|                       |                                |   |                                     |
|-----------------------|--------------------------------|---|-------------------------------------|
| Date: <u>11/10/15</u> | Site ID #: 07960               | Site Name: 378 Truck Stop                   | Field Personnel: B. Peay, K. Wright |
| County: Edgefield     | Project Manager: Noelle France | General Weather Conditions: <u>overcast</u> | Ambient Air Temp (°F): <u>60's</u>  |

|   |   |
|---|---|
| Meter Name:<br>Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)  | Serial #:<br><u>X4770STN/<br/>400T5LW</u> |
| Calibration:<br>pH $4.00 \pm 0.10$ <u>Dr N</u> at $^{\circ}\text{C}$ <u>11.28</u><br>Specific Conductivity $4.49 \text{ mS/cm} \pm 10\%$ : <u>Dr N</u> or N<br>DO $8.78 \text{ mg/L} \pm 10\%$ : Y or <u>Dr</u> |   |

|  |  |
|--|--|
| Well ID: <u>07960 - WSW22</u><br><input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other<br><input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Screened Interval (ft): -<br>Total Well Depth (TWD) (ft):<br>1 casing volume (CV = LWC x C) (gals.):<br>3 casing volumes (3 x CV) (gals.): |
|--|--|

| Volume Purged (gallons)       | Initial      | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |
|-------------------------------|--------------|----------|----------|----------|---------|----------|----------|--------------|
|                               | 0            |          |          |          |         |          |          | 0            |
| Time (military)               | <u>1220</u>  |          |          |          |         |          |          | <u>1230</u>  |
| PH (s.u.)                     | <u>6.07</u>  |          |          |          |         |          |          | <u>6.62</u>  |
| Specific Conductivity (µS/cm) | <u>0.406</u> |          |          |          |         |          |          | <u>0.428</u> |
| Water Temperature (°C)        | <u>15.32</u> |          |          |          |         |          |          | <u>15.41</u> |
| Turbidity (NTU)               | <u>11.6</u>  |          |          |          |         |          |          | <u>0.2</u>   |
| Dissolved Oxygen (mg/L)       | <u>8.67</u>  |          |          |          |         |          |          | <u>8.71</u>  |

|  |   |
|--|---|
| Sampled By: <u>KWright</u><br>Notes: <u>Sample collected from faucet at house. Water allowed to run for 10 minutes before collecting sample.</u> | Sampling Time: <u>1230</u><br>Duplicate: Y or <u>N</u><br>If yes, Duplicate Time: |
| Signature: <u>[Signature]</u>  |   |



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: overcast Ambient Air Temp (°F): 60.5

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH770STN/ pH  $4.00 \pm 0.10$ : 0 or N at 11.28 °C 11.28 Turbidity  $0.0 \text{ NTU} \pm 1.0$ : 0 or N  
H0075LW Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : 0 or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or 0  
 Comments: DO 9.80

Well ID: 07960 - WSW3 Well Diameter (inches): \_\_\_\_\_ Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  Bailor  Pump  
 Private WSW  Public WSW  
 Screened Interval (ft): \_\_\_\_\_ Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Total Well Depth (TWD) (ft): \_\_\_\_\_ Free Product Thickness (ft): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3 1/2 Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|------------|----------|----------|----------|
| Volume Purged (gallons)       | 0       |          |          |          |            |          |          | 0        |
| Time (military)               |         |          |          |          |            |          |          | 1205     |
| PH (s.u.)                     |         |          |          |          |            |          |          | 6.66     |
| Specific Conductivity (µS/cm) |         |          |          |          |            |          |          | 6.092    |
| Water Temperature (°C)        |         |          |          |          |            |          |          | 16.66    |
| Turbidity (NTU)               |         |          |          |          |            |          |          | 19.1     |
| Dissolved Oxygen (mg/L)       |         |          |          |          |            |          |          | 3.04     |

Sampled By: K. Wright Sampling Time: 1205 Duplicate: Y or 0 If yes, Duplicate Time: \_\_\_\_\_  
 Notes: well is open sampled as no purge with bailer  
 Signature: [Signature]



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

|                   |                                |                                      |                                     |
|-------------------|--------------------------------|--------------------------------------|-------------------------------------|
| Date: 11/10/15    | Site ID #: 07960               | Site Name: 378 Truck Stop            | Field Personnel: B. Peay, K. Wright |
| County: Edgefield | Project Manager: Noelle France | General Weather Conditions: overcast | Ambient Air Temp (°F): 60's         |

**Quality Assurance**

|   |                       |  |
|---|-----------------------|--|
| Meter Name:   | Serial #:             | Calibration:   |
| Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) | XH7705 TN/<br>HOUT5LN | pH 4.00 ± 0.10: <input checked="" type="radio"/> or N at °C 11.25<br>Turbidity 0.0 NTU ± 1.0 <input checked="" type="radio"/> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <input checked="" type="radio"/> or N<br>DO 8.78 mg/L ± 10%: Y or <input checked="" type="radio"/> N |
| Comments: DO 9.80   |                       |  |

**Well Information**

|  |   |  |   |
|--|---|--|---|
| Well ID: 07960 - WSAW4   | Well Diameter (inches): —               | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 | Method of Purging/Sample Collection:<br>Bailer ___ Pump ___ |
| <input checked="" type="checkbox"/> MW ___ IW ___ RW ___ Surface Water ___ Other ___ | Screened Interval (ft.): —              | Depth to Free Product (DTP) (ft.):                                       |   |
| Depth to Groundwater (DTW) (ft.):  | Total Well Depth (TWD) (ft.):           | Free Product Thickness (ft.):  |   |
| Length of water column (LWC = TWD - DGW) (ft.):                                      | 1 casing volume (CV = LWC x C) (gals.): | 3 casing volumes (3 x CV) (gals.):                                       |   |

**Purging Data**

| Initial                       | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0        |          |         |          |         |          |          | 0        |
| Time (military)               | 1140     |          |         |          |         |          |          | 1150     |
| PH (s.u.)                     | 7.19     |          |         |          |         |          |          | 7.14     |
| Specific Conductivity (µS/cm) | 6,945    |          |         |          |         |          |          | 0.964    |
| Water Temperature (°C)        | 14.44    |          |         |          |         |          |          | 14.59    |
| Turbidity (NTU)               | 1.2      |          |         |          |         |          |          | 1.1      |
| Dissolved Oxygen (mg/L)       | 6.18     |          |         |          |         |          |          | 6.64     |

**Sampling Data**

|   |                     |  |                         |
|---|---------------------|--|-------------------------|
| Sampled By: K. Wright   | Sampling Time: 1150 | Duplicate: Y or <input checked="" type="radio"/> N | If yes, Duplicate Time: |
| Notes: Sample collected from faucet on side of house. Water allowed to run for 10 minutes before collecting sample. |                     |  |                         |
| Signature: <i>K. Wright</i>   |                     |  |                         |



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

## Site Information

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: overcast Ambient Air Temp (°F): 60.5

## Sampling Assurance

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)

## Well Information

Well ID: 07960 - LSW 5 Well Diameter (inches): \_\_\_\_\_ Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection: \_\_\_\_\_  
 MW  IW  RW  Surface Water  Other \_\_\_\_\_  
 Private WSW  Public WSW \_\_\_\_\_  
 Depth to Groundwater (DTW) (ft.): \_\_\_\_\_ Total Well Depth (TWD) (ft.): \_\_\_\_\_ Free Product Thickness (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

## Sampling Data

|                               | Initial | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       |          |          |         |          |         |          |          | 0        |
| Time (military)               | 1105    |          |          |         |          |         |          |          | 1115     |
| PH (s.u.)                     | 7.37    |          |          |         |          |         |          |          | 7.13     |
| Specific Conductivity (µS/cm) | 0.346   |          |          |         |          |         |          |          | 6.32     |
| Water Temperature (°C)        | 4.89    |          |          |         |          |         |          |          | 15.3     |
| Turbidity (NTU)               | 22.7    |          |          |         |          |         |          |          | 9.7      |
| Dissolved Oxygen (mg/L)       | 4.56    |          |          |         |          |         |          |          | 6.13     |

## Summary

Sampled By: KWright Sampling Time: 1115 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Sampled from faucet at well head. Water allowed to run for 10 minutes before sampling  
 Signature: [Signature]



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

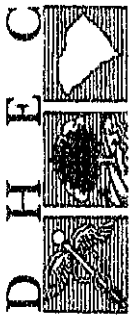
|   |                                    |
|---|------------------------------------|
| <b>Site Information</b>                     |                                    |
| Date: <u>11/10/15</u>                       | Site ID #: 07960                   |
| County: Edgefield                           | Project Manager: Noelle France     |
| Field Personnel: B. Peay, K. Wright         | Ambient Air Temp (°F): <u>60.5</u> |
| General Weather Conditions: <u>overcast</u> |                                    |

|  |  |
|--|--|
| Meter Name: _____<br>Serial #: _____<br>Calibration: _____ | pH 4.00 ± 0.10 <u>Y</u> or N at <u>°C 11.28</u><br>Turbidity 0.0 NTU ± 1.0: <u>Y</u> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <u>Y</u> or N<br>DO 8.78 mg/L ± 10%: <u>Y</u> or <u>N</u><br>Comments: <u>DO 9.80</u> |
|--|--|

|   |  |
|---|--|
| <b>Well Information</b>   |  |
| Well ID: <u>07960 - NSWC</u><br>Well Diameter (inches): _____<br>Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection:<br><input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump | Depth to Groundwater (DTW) (ft.): _____<br>Depth to Free Product (DTP) (ft.): _____<br>Free Product Thickness (ft): _____<br>Length of water column (LWC = TWD - DGW) (ft.): _____<br>3 casing volumes (3 x CV) (gals.): _____ |

|                               |              |          |          |          |         |          |          |              |
|-------------------------------|--------------|----------|----------|----------|---------|----------|----------|--------------|
| <b>Sampling Data</b>          |              |          |          |          |         |          |          |              |
| Volume Purged (gallons)       | Initial      | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |
|                               | 0            |          |          |          |         |          |          | 0            |
| Time (military)               | <u>1125</u>  |          |          |          |         |          |          | <u>1135</u>  |
| PH (s.u.)                     | <u>7.13</u>  |          |          |          |         |          |          | <u>6.55</u>  |
| Specific Conductivity (µS/cm) | <u>0.231</u> |          |          |          |         |          |          | <u>0.226</u> |
| Water Temperature (°C)        | <u>15.78</u> |          |          |          |         |          |          | <u>16.17</u> |
| Turbidity (NTU)               | <u>3.5</u>   |          |          |          |         |          |          | <u>2.2</u>   |
| Dissolved Oxygen (mg/L)       | <u>7.18</u>  |          |          |          |         |          |          | <u>4.89</u>  |

|   |   |
|---|---|
| Sampled By: <u>KNwright</u><br>Notes: <u>Sample collected from faucet at well head. Water allowed to run for 10 minutes before collecting</u> | Sampling Time: <u>1135</u><br>Duplicate: <u>Y</u> or <u>N</u><br>If yes, Duplicate Time: _____<br>Signature: <u>Ky high</u> |
|---|---|



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

### Site Information

|                          |                                       |   |  |
|--------------------------|---------------------------------------|---|--|
| Date: <u>11/10/15</u>    | Site ID #: <u>07960</u>               | Site Name: <u>378 Truck Stop</u>            | Field Personnel: <u>B. Peay, K. Wright</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Noelle France</u> | General Weather Conditions: <u>overcast</u> | Ambient Air Temp (°F): <u>60's</u>         |

|                                      |  |
|--------------------------------------|--|
| Meter Name: _____<br>Serial #: _____ | Calibration: _____<br>Turbidity <u>0.0</u> NTU ± 1.0% <u>or N</u><br>DO <u>8.78</u> mg/L ± 10%: <u>Y</u> or <u>N</u> |
|--------------------------------------|--|

### Well Information

|   |   |   |
|---|---|---|
| Well ID: <u>07960 - WSW7</u><br>Well Diameter (inches): <u>4</u><br><input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Screened Interval (ft): <u>-</u><br>Total Well Depth (TWD) (ft): _____<br>Length of water column (LWC = TWD - DGW) (ft.): _____ | Method of Purgig/Sample Collection:<br><input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump<br>Depth to Free Product (DTP) (ft.): _____<br>Free Product Thickness (ft): _____<br>3 casing volumes (3 x CV) (gals.): _____ |
|---|---|---|

|                               | Initial      | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |
|-------------------------------|--------------|----------|----------|----------|---------|----------|----------|--------------|
| Volume Purged (gallons)       | 0            |          |          |          |         |          |          | 0            |
| Time (military)               | <u>1320</u>  |          |          |          |         |          |          | <u>1330</u>  |
| PH (s.u.)                     | <u>7.04</u>  |          |          |          |         |          |          | <u>7.30</u>  |
| Specific Conductivity (µS/cm) | <u>0.303</u> |          |          |          |         |          |          | <u>0.304</u> |
| Water Temperature (°C)        | <u>14.36</u> |          |          |          |         |          |          | <u>15.00</u> |
| Turbidity (NTU)               | <u>79.9</u>  |          |          |          |         |          |          | <u>75.5</u>  |
| Dissolved Oxygen (mg/L)       | <u>6.28</u>  |          |          |          |         |          |          | <u>6.04</u>  |

|   |   |  |
|---|---|--|
| Sampled By: <u>KW Wright</u><br>Notes: <u>sample collected from faucet outside of building. water allowed to run for 10 minutes before collecting sample.</u> | Sampling Time: <u>1330</u><br>Duplicate: <u>Y</u> or <u>N</u> | If yes, Duplicate Time: _____<br>Signature: <u>[Signature]</u> |
|---|---|--|



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

## Site Information

|                       |                                |   |  |
|-----------------------|--------------------------------|---|--|
| Date: <u>11/10/15</u> | Site ID #: 07960               | Site Name: 378 Truck Stop                   | Field Personnel: <u>B. Peay, K. Wright</u> |
| County: Edgefield     | Project Manager: Noelle France | General Weather Conditions: <u>Overcast</u> | Ambient Air Temp (°F): <u>60s</u>          |

|  |  |
|--|--|
| Meter Name: _____<br>Serial #: _____<br>Calibration: _____ | pH <u>4.00</u> ± 0.10: <u>Y</u> or N at <u>°C 11.28</u><br>Turbidity 0.0 NTU ± 1.0: <u>Y</u> or N<br>Specific Conductivity 4.49 mS/cm ± 10%: <u>Y</u> or N<br>DO 8.78 mg/L ± 10%: <u>Y</u> or <u>N</u><br>Comments: <u>DO 9.80</u> |
|--|--|

## Well Information

|  |  |
|--|--|
| Well ID: <u>07960 - RW-28</u><br>Well Diameter (inches): <u>4</u><br>Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Screened Interval (ft): _____<br>Depth to Free Product (DTP) (ft.): _____ | Method of Purging/Sample Collection:<br>___ Bailer ___ Pump <input checked="" type="checkbox"/> Pump<br>Depth to Free Product (DTP) (ft.): _____<br>Free Product Thickness (ft.): _____<br>Length of water column (LWC = TWD - DGW) (ft.): _____<br>3 casing volumes (3 x CV) (gals.): _____ |
|--|--|

| Volume Purged (gallons) | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------|----------|----------|----------|---------|----------|----------|----------|
| 0                       |          |          |          |         |          |          | 0        |
| 1340                    |          |          |          |         |          |          | 1350     |
| 7.19                    |          |          |          |         |          |          | 7.14     |
| 0.497                   |          |          |          |         |          |          | 0.470    |
| 15.61                   |          |          |          |         |          |          | 15.77    |
| 2.6                     |          |          |          |         |          |          | 1.5      |
| 6.09                    |          |          |          |         |          |          | 6.28     |

|  |   |
|--|---|
| Sampled By: <u>K. Wright</u><br>Notes: <u>Well was sampled from faucet prior to filter. Water was allowed to run for 10 minutes before collecting sample</u> | Sampling Time: <u>1350</u><br>Duplicate: <u>Y</u> or <u>N</u><br>If yes, Duplicate Time: _____<br>Signature: <u>[Signature]</u> |
|--|---|





# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

### Site Information

|                          |                                       |   |  |
|--------------------------|---------------------------------------|---|--|
| Date: <u>11/10/15</u>    | Site ID #: <u>07960</u>               | Site Name: <u>378 Truck Stop</u>            | Field Personnel: <u>B. Peay, K. Wright</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Noelle France</u> | General Weather Conditions: <u>overcast</u> | Ambient Air Temp (°F): <u>60's</u>         |

### Well Information

|   |                                |  |
|---|--------------------------------|--|
| Meter Name:   | Serial #:                      | Calibration:   |
| Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) | <u>XH 770 STN/<br/>HODTBCN</u> | pH $4.00 \pm 0.10$ : <u>Y</u> or N at $^{\circ}\text{C}$ <u>16.28</u><br>Turbidity $0.0 \text{ NTU} \pm 1.0$ : <u>Y</u> or N<br>Specific Conductivity $4.49 \text{ mS/cm} \pm 10\%$ : <u>Y</u> or N<br>DO $8.78 \text{ mg/L} \pm 10\%$ : <u>Y</u> or N<br>Comments: <u>DO 9.80</u> |

### Well Information

|  |   |  |
|--|---|--|
| Well ID: <u>07960 - WSOB POST GAC</u>  | Well Diameter (inches): <u>4</u>        | Conversion Factor (C): $1'' \text{ well} = 0.047, 2'' \text{ well} = 0.163, 4'' \text{ well} = 0.652$            |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other | Screened Interval (ft): <u>-</u>        | Method of Purging/Sample Collection:<br><input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump |
| Depth to Groundwater (DTW) (ft.):  | Total Well Depth (TWD) (ft.):           | Depth to Free Product (DTP) (ft.):   |
| Length of water column (LWC = TWD - DGW) (ft.):  | 1 casing volume (CV = LWC x C) (gals.): | Free Product Thickness (ft.):  |
|  |   | 3 casing volumes (3 x CV) (gals.):   |

### Purging Data

|  | Initial      | 1st Vol. | 2nd Vol. | 3rd Vol. | 3 1/2 Vol. | 4th Vol. | 5th Vol. | Sampling     |
|--|--------------|----------|----------|----------|------------|----------|----------|--------------|
| Volume Purged (gallons)                    | 0            |          |          |          |            |          |          | 0            |
| Time (military)                            | <u>1355</u>  |          |          |          |            |          |          | <u>1405</u>  |
| PH (s.u.)                                  | <u>7.11</u>  |          |          |          |            |          |          | <u>7.07</u>  |
| Specific Conductivity ( $\mu\text{S/cm}$ ) | <u>0.474</u> |          |          |          |            |          |          | <u>0.478</u> |
| Water Temperature ( $^{\circ}\text{C}$ )   | <u>14.76</u> |          |          |          |            |          |          | <u>14.76</u> |
| Turbidity (NTU)                            | <u>1.7</u>   |          |          |          |            |          |          | <u>0.0</u>   |
| Dissolved Oxygen (mg/L)                    | <u>9.09</u>  |          |          |          |            |          |          | <u>5.41</u>  |

### Sampling Data

|  |                            |                                 |
|--|----------------------------|---------------------------------|
| Sampled By: <u>KWright</u>   | Sampling Time: <u>1405</u> | Duplicate: <u>Y</u> or <u>N</u> |
| Notes: <u>well was sampled from faucet after filter - water was allowed to run for 10 minutes before collecting sample</u> |                            |                                 |
| Signature: <u>KWright</u>  |                            | If yes, Duplicate Time:         |



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

### Site Information

|                       |                                |   |                                     |
|-----------------------|--------------------------------|---|-------------------------------------|
| Date: <u>11/10/15</u> | Site ID #: 07960               | Site Name: 378 Truck Stop                   | Field Personnel: B. Peay, K. Wright |
| County: Edgefield     | Project Manager: Noelle France | General Weather Conditions: <u>overcast</u> | Ambient Air Temp (°F): <u>60.5</u>  |

|  |   |   |
|--|---|---|
| Meter Name:<br>Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) | Serial #:<br><u>XA770 STN /</u><br><u>H00TSLN</u> | Calibration:<br>pH 4.00 ± 0.10 <u>Y</u> or N at °C <u>11.28</u><br>Specific Conductivity 4.49 mS/cm ± 10% <u>Y</u> or N<br>DO 8.78 mg/L ± 10%: <u>Y</u> or <u>N</u><br>Comments: <u>DO 9.80</u> |
|--|---|---|

|   |   |  |
|---|---|--|
| Well ID: 07960 - <u>WSW9</u>  | Well Diameter (inches): <u>—</u>        | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection:<br><input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other<br><input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft): <u>-</u>        | Depth to Free Product (DTP) (ft.):   |
| Depth to Groundwater (DTW) (ft.):   | Total Well Depth (TWD) (ft.):           | Free Product Thickness (ft.):  |
| Length of water column (LWC = TWD - DGW) (ft.):   | 1 casing volume (CV = LWC x C) (gals.): | 3 casing volumes (3 x CV) (gals.):   |

|                               | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|----------|----------|---------|----------|---------|----------|----------|----------|
| Initial                       |          |          |         |          |         |          |          |          |
| Volume Purged (gallons)       | 0        |          |         |          |         |          |          | 0        |
| Time (military)               | 1410     |          |         |          |         |          |          | 1420     |
| PH (s.u.)                     | 6.67     |          |         |          |         |          |          | 7.08     |
| Specific Conductivity (µS/cm) | 0.539    |          |         |          |         |          |          | 0.273    |
| Water Temperature (°C)        | 15.23    |          |         |          |         |          |          | 16.45    |
| Turbidity (NTU)               | 104      |          |         |          |         |          |          | 69.4     |
| Dissolved Oxygen (mg/L)       | 7.93     |          |         |          |         |          |          | 7.55     |

|   |                            |                                 |                         |
|---|----------------------------|---------------------------------|-------------------------|
| Sampled By: <u>KWright</u>  | Sampling Time: <u>1420</u> | Duplicate: <u>Y</u> or <u>N</u> | If yes, Duplicate Time: |
| Notes: <u>Sample collected from faucet on outside of pump house. water allowed to run for 10 minutes before collecting sample</u> |                            |                                 |                         |
| Signature: <u>KWright</u>   |                            |                                 |                         |



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright

County: Edgefield Project Manager: Noelle France General Weather Conditions: \_\_\_\_\_ Ambient Air Temp (°F): \_\_\_\_\_

Meter Name: \_\_\_\_\_ Serial #: XH770STN / H0075LN Calibration: \_\_\_\_\_

Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)

pH  $4.00 \pm 0.10$ :  Y or N at 11.28 °C 11.28 Turbidity  $0.0 \text{ NTU} \pm 1.0$ :  Y or N

Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ :  Y or N DO  $8.78 \text{ mg/L} \pm 10\%$ :  Y or N

Comments: DD 9.80

Well ID: 07960 - NSW10 Well Diameter (inches): \_\_\_\_\_ Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652

MW  IW  RW  Surface Water  Other \_\_\_\_\_ Screened Interval (ft): \_\_\_\_\_ Depth to Free Product (DTP) (ft.): \_\_\_\_\_

Private WSW  Public WSW \_\_\_\_\_ Total Well Depth (TWD) (ft): \_\_\_\_\_ Free Product Thickness (ft): \_\_\_\_\_

Depth to Groundwater (DTW) (ft.): \_\_\_\_\_ Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 3 casing volumes (3 x CV) (gals.):

|                               | Initial      | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |
|-------------------------------|--------------|----------|----------|----------|---------|----------|----------|--------------|
| Volume Purged (gallons)       | 0            |          |          |          |         |          |          | 0            |
| Time (military)               | <u>1430</u>  |          |          |          |         |          |          | <u>1440</u>  |
| PH (s.u.)                     | <u>6.96</u>  |          |          |          |         |          |          | <u>7.21</u>  |
| Specific Conductivity (µS/cm) | <u>0.512</u> |          |          |          |         |          |          | <u>0.512</u> |
| Water Temperature (°C)        | <u>16.49</u> |          |          |          |         |          |          | <u>15.58</u> |
| Turbidity (NTU)               | <u>3.8</u>   |          |          |          |         |          |          | <u>0.6</u>   |
| Dissolved Oxygen (mg/L)       | <u>5.48</u>  |          |          |          |         |          |          | <u>8.77</u>  |

Sampled By: K Wright Sampling Time: 1440 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_

Notes: Sample collected from faucet on side of house. Water allowed to run for 10 minutes before collecting sample

Signature: K Wright



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

### Site Information

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright

County: Edgefield Project Manager: Noelle France General Weather Conditions: Overcast Ambient Air Temp (°F): 60's

### Quality Assurance

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_

Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)

pH  $4.00 \pm 0.10$ : Y or N at 11.28 °C 11.28 Turbidity  $0.0 \text{ NTU} \pm 1.0$ : Y or N

Specific Conductivity  $4.49 \text{ mS/cm} \pm 10\%$ : Y or N DO  $8.78 \text{ mg/L} \pm 10\%$ : Y or N

Comments: DO 9.80

### Well Information

Well ID: 07960 - WSW 11 Well Diameter (inches): \_\_\_\_\_ Conversion Factor (C):  $1'' \text{ well} = 0.047, 2'' \text{ well} = 0.163, 4'' \text{ well} = 0.652$

MW  IW  RW  Surface Water  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ Depth to Free Product (DTP) (ft.): \_\_\_\_\_

Private WSW  Public WSW \_\_\_\_\_

Depth to Groundwater (DTW) (ft.): \_\_\_\_\_ Total Well Depth (TWD) (ft.): \_\_\_\_\_ Free Product Thickness (ft.): \_\_\_\_\_

Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

### Purging Data

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       |          |          |          |         |          |          | 0        |
| Time (military)               | 1450    |          |          |          |         |          |          | 1500     |
| PH (s.u.)                     | 7.13    |          |          |          |         |          |          | 7.01     |
| Specific Conductivity (µS/cm) | 0.531   |          |          |          |         |          |          | 0.473    |
| Water Temperature (°C)        | 15.40   |          |          |          |         |          |          | 15.17    |
| Turbidity (NTU)               | 0.0     |          |          |          |         |          |          | 0.0      |
| Dissolved Oxygen (mg/L)       | 5.17    |          |          |          |         |          |          | 5.67     |

### Sampling Data

Sampled By: R. Wright Sampling Time: 1500 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_

Notes: the sample collected from faucet on side of house. Water allowed to run for 10 minutes before collecting sample Signature: R. Wright



# Underground Storage Tank Management Division Field Data Information Sheet - Sampling

## Site Information

|                   |                                |                                   |                                     |
|-------------------|--------------------------------|-----------------------------------|-------------------------------------|
| Date: 11/10/15    | Site ID #: 07960               | Site Name: 378 Truck Stop         | Field Personnel: B. Peay, K. Wright |
| County: Edgefield | Project Manager: Noelle France | General Weather Conditions: Sunny | Ambient Air Temp (°F): 70           |

|  |   |
|--|---|
| Meter Name:<br>Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) | Serial #:<br>XH770 STN /<br>HOD TBLN                          |
| Calibration:   |   |
| pH 4.00 ± 0.10 <input checked="" type="radio"/> or N at °C 11.28                                 | Turbidity 0.0 NTU ± 1.0 <input checked="" type="radio"/> or N |
| Specific Conductivity 4.49 mS/cm ± 10% <input checked="" type="radio"/> or N                     | DO 8.78 mg/L ± 10%: Y or <input checked="" type="radio"/>     |
| Comments: DO 9.80  |   |

## Well Information

|  |   |  |
|--|---|--|
| Well ID: 07960 - WSW12   | Well Diameter (inches): 4               | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other | Screened Interval (ft): -               | Depth to Free Product (DTP) (ft.):                                       |
| Depth to Groundwater (DTW) (ft.):  | Total Well Depth (TWD) (ft.):           | Free Product Thickness (ft):   |
| Length of water column (LWC = TWD - DGW) (ft.):  | 1 casing volume (CV = LWC x C) (gals.): | 3 casing volumes (3 x CV) (gals.):                                       |

## Sampling

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|---------|----------|----------|----------|
| Volume Purged (gallons)       | 0       |          |          |          |         |          |          | 0        |
| Time (military)               | 1505    |          |          |          |         |          |          | 1575     |
| PH (s.u.)                     | 7.04    |          |          |          |         |          |          | 6.16     |
| Specific Conductivity (µS/cm) | 6.104   |          |          |          |         |          |          | 6.086    |
| Water Temperature (°C)        | 15.75   |          |          |          |         |          |          | 15.69    |
| Turbidity (NTU)               | 17.3    |          |          |          |         |          |          | 22.8     |
| Dissolved Oxygen (mg/L)       | 5.21    |          |          |          |         |          |          | 6.09     |

|   |                     |                         |
|---|---------------------|-------------------------|
| Sampled By: KWright   | Sampling Time: 1575 | Duplicate: Y or N       |
| Notes: Sample collected from faucet on side of home, water allowed to run for 10 minutes before collecting sample |                     |                         |
| Signature: <i>[Signature]</i>   |                     | If yes, Duplicate Time: |



# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Date: 11/10/15 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: B. Peay, K. Wright  
 County: Edgefield Project Manager: Noelle France General Weather Conditions: Sunny Ambient Air Temp (°F): 70.5

Meter Name: \_\_\_\_\_ Serial #: \_\_\_\_\_ Calibration: \_\_\_\_\_  
 Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity) XH770 STN/ pH 4.00 ± 0.10 Dr N at °C 11.28 Turbidity 0.0 NTU ± 1.0 Dr N  
H0075LW Specific Conductivity 4.49 mS/cm ± 10% Dr N DO 8.78 mg/L ± 10% Y or N  
 Comments: DO 9.80

Well ID: 07960 - WSW13 Well Diameter (inches): - Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 Method of Purging/Sample Collection:  
 MW  IW  RW  Surface Water  Other  Bailer  Pump  
 Private WSW  Public WSW  
 Depth to Groundwater (DTW) (ft.): \_\_\_\_\_ Screened Interval (ft.): - Depth to Free Product (DTP) (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ Total Well Depth (TWD) (ft.): \_\_\_\_\_ Free Product Thickness (ft.): \_\_\_\_\_  
 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

|                               | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 3 1/2 Vol. | 4th Vol. | 5th Vol. | Sampling |
|-------------------------------|---------|----------|----------|----------|------------|----------|----------|----------|
| Volume Purged (gallons)       | 0       |          |          |          |            |          |          | 0        |
| Time (military)               | 1525    |          |          |          |            |          |          | 1535     |
| PH (s.u.)                     | 6.19    |          |          |          |            |          |          | 7.00     |
| Specific Conductivity (µS/cm) | 0.582   |          |          |          |            |          |          | 0.592    |
| Water Temperature (°C)        | 15.35   |          |          |          |            |          |          | 15.05    |
| Turbidity (NTU)               | 0.0     |          |          |          |            |          |          | 0.0      |
| Dissolved Oxygen (mg/L)       | 3.90    |          |          |          |            |          |          | 4.68     |

Sampled By: KWright Sampling Time: 1535 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: Sample collected from faucet on side of house. Water allowed to run for 10 minutes before collecting sample Signature: Kybyll



## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

|                          |                                       |  |  |
|--------------------------|---------------------------------------|--|--|
| Date: <u>11/10/15</u>    | Site ID #: <u>07960</u>               | Site Name: <u>378 Truck Stop</u>         | Field Personnel: <u>B. Peay, K. Wright</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Noelle France</u> | General Weather Conditions: <u>SUNNY</u> | Ambient Air Temp (°F): <u>70s</u>          |

|  |   |
|--|---|
| Meter Name: _____<br>Serial #: _____<br>Calibration: _____ | pH $4.00 \pm 0.10$ <u>Y</u> or N at _____ °C <u>11.28</u><br>Turbidity $0.0$ NTU $\pm 1.0$ : <u>0</u> or N<br>Specific Conductivity $4.49$ mS/cm $\pm 10\%$ : <u>0</u> or N<br>DO $8.78$ mg/L $\pm 10\%$ : <u>Y</u> or <u>N</u><br>Comments: <u>DO 9.80</u> |
|--|---|

|  |   |  |  |
|--|---|--|--|
| Well ID: <u>07960 - WSN/4</u>  | Well Diameter (inches): <u>-</u>              | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump |
| MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other _____ | Screened Interval (ft): <u>-</u>              | Depth to Free Product (DTP) (ft.): _____                                 |  |
| <input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW  | Total Well Depth (TWD) (ft): _____            | Free Product Thickness (ft): _____                                       |  |
| Depth to Groundwater (DTW) (ft.): _____  | 1 casing volume (CV = LWC x C) (gals.): _____ | 3 casing volumes (3 x CV) (gals.): _____                                 |  |

|                               | Initial      | 1st Vol. | 2nd Vol. | 2½ Vol. | 3rd Vol. | 3½ Vol. | 4th Vol. | 5th Vol. | Sampling     |
|-------------------------------|--------------|----------|----------|---------|----------|---------|----------|----------|--------------|
| Volume Purged (gallons)       | 0            |          |          |         |          |         |          |          | 0            |
| Time (military)               | <u>1545</u>  |          |          |         |          |         |          |          | <u>1550</u>  |
| PH (s.u.)                     | <u>7.24</u>  |          |          |         |          |         |          |          | <u>6.84</u>  |
| Specific Conductivity (µS/cm) | <u>0.263</u> |          |          |         |          |         |          |          | <u>0.265</u> |
| Water Temperature (°C)        | <u>15.93</u> |          |          |         |          |         |          |          | <u>16.06</u> |
| Turbidity (NTU)               | <u>29.7</u>  |          |          |         |          |         |          |          | <u>31.1</u>  |
| Dissolved Oxygen (mg/L)       | <u>7.71</u>  |          |          |         |          |         |          |          | <u>7.70</u>  |

|  |                            |
|--|----------------------------|
| Sampled By: <u>KWright</u>   | Sampling Time: <u>1550</u> |
| Notes: <u>Sample collected from faucet on side of home. Water allowed to run for 10 minutes before collecting sample</u> |                            |
| Duplicate: <u>Y</u> or <u>N</u> If yes, Duplicate Time: _____  |                            |
| Signature: <u>[Signature]</u>  |                            |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

|  |  |  |  |         |                               |          |          |              |
|--|--|--|--|---------|-------------------------------|----------|----------|--------------|
| Date: <u>11/10/15</u>  | Site ID #: <u>07960</u>                          | Site Name: <u>378 Truck Stop</u>   | Field Personnel: <u>B. Peay, K. Wright</u> |         |                               |          |          |              |
| County: <u>Edgefield</u>   | Project Manager: <u>Noelle France</u>            | General Weather Conditions: <u>Sunny</u>   | Ambient Air Temp (°F): <u>70's</u>         |         |                               |          |          |              |
| Meter Name: _____<br>Serial #: _____   |  | Calibration: _____<br>Turbidity 0.0 NTU ± 1.0: <u>D</u> or <u>N</u><br>DO 8.78 mg/L ± 10%: <u>Y</u> or <u>N</u>                                    |  |         |                               |          |          |              |
| Horiba U-52 (pH, temperature, specific conductivity, dissolved oxygen, turbidity)<br><u>XH770STN/</u><br><u>H7075W</u>   |  | pH 4.00 ± 0.10 <u>D</u> or <u>N</u> at <u>11.28</u> °C<br>Specific Conductivity 4.49 mS/cm ± 10%: <u>D</u> or <u>N</u><br>Comments: <u>DO 9.80</u> |  |         |                               |          |          |              |
| Well ID: <u>07960 - W5015</u>  | Well Diameter (inches): <u>—</u>                 | Conversion Factor (C): 1" well = 0.047, 2" well = 0.163, 4" well = 0.652<br>Method of Purging/Sample Collection:<br>Bailer <u>X</u> Pump _____     |  |         |                               |          |          |              |
| <input type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Surface Water <input type="checkbox"/> Other<br><input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft): <u>-</u>                 | Depth to Free Product (DTP) (ft.): _____   |  |         |                               |          |          |              |
| Depth to Groundwater (DTW) (ft.): _____  | Total Well Depth (TWD) (ft): _____               | Free Product Thickness (ft): _____   |  |         |                               |          |          |              |
| Length of water column (LWC = TWD - DGW) (ft.): _____  | 1 casing volume (CV = LWC x C) (gals.): <u>1</u> | 3 casing volumes (3 x CV) (gals.): _____   |  |         |                               |          |          |              |
| Volume Purged (gallons)  | Initial  | 1st Vol.   | 2nd Vol.                                   | 2½ Vol. | 3rd Vol.                      | 4th Vol. | 5th Vol. | Sampling     |
|  | <u>0</u>   |  |  |         |                               |          |          | <u>0</u>     |
| Time (military)  | <u>1600</u>                                      |  |  |         |                               |          |          | <u>1610</u>  |
| PH (s.u.)  | <u>6.73</u>                                      |  |  |         |                               |          |          | <u>7.35</u>  |
| Specific Conductivity (µS/cm)  | <u>0.949</u>                                     |  |  |         |                               |          |          | <u>0.942</u> |
| Water Temperature (°C)   | <u>16.06</u>                                     |  |  |         |                               |          |          | <u>16.27</u> |
| Turbidity (NTU)  | <u>0.1</u>                                       |  |  |         |                               |          |          | <u>0.0</u>   |
| Dissolved Oxygen (mg/L)  | <u>8.52</u>                                      |  |  |         |                               |          |          | <u>3.97</u>  |
| Sampled By: <u>KW7h</u>  |  | Sampling Time: <u>1610</u>   | Duplicate: <u>Y</u> or <u>N</u>            |         | If yes, Duplicate Time: _____ |          |          |              |
| Notes: <u>Sample collected from faucet with hose connected at pump house - water allowed to run for 10 minutes before collecting sample KW7h</u>   |  |  |  |         |                               |          |          |              |
| Signature: _____   |  |  |  |         |                               |          |          |              |
| DHEC 0423 (10/2012)  |  |  |  |         |                               |          |          |              |
| SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  |  |  |  |         |                               |          |          |              |



November 20, 2015

Noelle France  
Environmental Compliance Services  
13504 South Point Blvd.  
Unit F  
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

Dear Noelle France:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor Ezell  
taylor.ezell@pacelabs.com  
Project Manager

Enclosures

cc: Aaron Williamson, Environmental Compliance Services



## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Lab ID      | Sample ID           | Matrix | Date Collected | Date Received  |
|-------------|---------------------|--------|----------------|----------------|
| 92276154001 | 07960-WSW11         | Water  | 11/10/15 15:00 | 11/13/15 12:15 |
| 92276154002 | 07960-WSW12         | Water  | 11/10/15 15:15 | 11/13/15 12:15 |
| 92276154003 | 07960-WSW13         | Water  | 11/10/15 15:35 | 11/13/15 12:15 |
| 92276154004 | 07960-WSW14         | Water  | 11/10/15 15:50 | 11/13/15 12:15 |
| 92276154005 | 07960-WSW15         | Water  | 11/10/15 16:10 | 11/13/15 12:15 |
| 92276154006 | 07960-MW11          | Water  | 11/11/15 14:28 | 11/13/15 12:15 |
| 92276154007 | 07960-MW12          | Water  | 11/11/15 12:05 | 11/13/15 12:15 |
| 92276154008 | 07960-MW13          | Water  | 11/11/15 10:25 | 11/13/15 12:15 |
| 92276154009 | 07960-MW14          | Water  | 11/11/15 13:47 | 11/13/15 12:15 |
| 92276154010 | 07960-MW15          | Water  | 11/11/15 09:20 | 11/13/15 12:15 |
| 92276154011 | 07960-MW18          | Water  | 11/11/15 17:10 | 11/13/15 12:15 |
| 92276154012 | 07960-MW22          | Water  | 11/11/15 15:45 | 11/13/15 12:15 |
| 92276154013 | 07960-MW28          | Water  | 11/10/15 17:18 | 11/13/15 12:15 |
| 92276154014 | 07960-MW30          | Water  | 11/11/15 12:57 | 11/13/15 12:15 |
| 92276154015 | 07960-TW5           | Water  | 11/11/15 11:25 | 11/13/15 12:15 |
| 92276154016 | 07960-DUP2          | Water  | 11/11/15 00:00 | 11/13/15 12:15 |
| 92276154017 | TRIP BLANK          | Water  | 11/11/15 00:00 | 11/13/15 12:15 |
| 92276154018 | 07960-WSW1 PREGAC   | Water  | 11/10/15 10:58 | 11/13/15 12:15 |
| 92276154019 | 07960-WSW1 POST GAC | Water  | 11/10/15 11:20 | 11/13/15 12:15 |
| 92276154020 | 07960-WSW2          | Water  | 11/10/15 12:30 | 11/13/15 12:15 |
| 92276154021 | 07960-WSW3          | Water  | 11/10/15 12:05 | 11/13/15 12:15 |
| 92276154022 | 07960-WSW4          | Water  | 11/10/15 11:50 | 11/13/15 12:15 |
| 92276154023 | 07960-WSW5          | Water  | 11/10/15 11:15 | 11/13/15 12:15 |
| 92276154024 | 07960-WSW6          | Water  | 11/10/15 11:35 | 11/13/15 12:15 |
| 92276154025 | 07960-WSW7          | Water  | 11/10/15 13:30 | 11/13/15 12:15 |
| 92276154026 | 07960-WSW8 PRE GAC  | Water  | 11/10/15 13:50 | 11/13/15 12:15 |
| 92276154027 | 07960-WSW8 POST GAC | Water  | 11/10/15 14:05 | 11/13/15 12:15 |
| 92276154028 | 07960-WSW9          | Water  | 11/10/15 14:20 | 11/13/15 12:15 |
| 92276154029 | 07960-WSW10         | Water  | 11/10/15 14:40 | 11/13/15 12:15 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| Lab ID      | Sample ID           | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|----------|----------|-------------------|------------|
| 92276154001 | 07960-WSW11         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154002 | 07960-WSW12         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154003 | 07960-WSW13         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154004 | 07960-WSW14         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154005 | 07960-WSW15         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154006 | 07960-MW11          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154007 | 07960-MW12          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154008 | 07960-MW13          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154009 | 07960-MW14          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154010 | 07960-MW15          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154011 | 07960-MW18          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154012 | 07960-MW22          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154013 | 07960-MW28          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154014 | 07960-MW30          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154015 | 07960-TW5           | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CAH      | 18                | PASI-C     |
| 92276154016 | 07960-DUP2          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154017 | TRIP BLANK          | EPA 8260 | CAH      | 18                | PASI-C     |
| 92276154018 | 07960-WSW1 PREGAC   | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154019 | 07960-WSW1 POST GAC | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Lab ID      | Sample ID           | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|----------|----------|-------------------|------------|
| 92276154020 | 07960-WSW2          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154021 | 07960-WSW3          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154022 | 07960-WSW4          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154023 | 07960-WSW5          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154024 | 07960-WSW6          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154025 | 07960-WSW7          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154026 | 07960-WSW8 PRE GAC  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154027 | 07960-WSW8 POST GAC | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154028 | 07960-WSW9          | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276154029 | 07960-WSW10         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                     | EPA 8260 | CCL      | 18                | PASI-C     |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW11      Lab ID: 92276154001      Collected: 11/10/15 15:00      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/16/15 22:21 | 11/17/15 13:07 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 107     | %     | 60-140       |       | 1  | 11/16/15 22:21 | 11/17/15 13:07 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/18/15 23:02 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/18/15 23:02 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:02 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/18/15 23:02 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/18/15 23:02 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/18/15 23:02 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/18/15 23:02 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:02 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/18/15 23:02 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/18/15 23:02 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/18/15 23:02 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:02 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/18/15 23:02 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/18/15 23:02 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/18/15 23:02 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 102     | %     | 70-130       |       | 1  |                | 11/18/15 23:02 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 92      | %     | 70-130       |       | 1  |                | 11/18/15 23:02 | 17060-07-0 |      |
| Toluene-d8 (S)   | 110     | %     | 70-130       |       | 1  |                | 11/18/15 23:02 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW12      Lab ID: 92276154002      Collected: 11/10/15 15:15      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:15 | 11/18/15 21:09 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 108     | %     | 60-140       |       | 1  | 11/18/15 20:15 | 11/18/15 21:09 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/18/15 23:19 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/18/15 23:19 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:19 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/18/15 23:19 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/18/15 23:19 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/18/15 23:19 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/18/15 23:19 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:19 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/18/15 23:19 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/18/15 23:19 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/18/15 23:19 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:19 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/18/15 23:19 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/18/15 23:19 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/18/15 23:19 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 1  |                | 11/18/15 23:19 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 92      | %     | 70-130       |       | 1  |                | 11/18/15 23:19 | 17060-07-0 |      |
| Toluene-d8 (S)   | 112     | %     | 70-130       |       | 1  |                | 11/18/15 23:19 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW13      Lab ID: 92276154003      Collected: 11/10/15 15:35      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/16/15 22:21 | 11/17/15 13:47 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 101     | %     | 60-140       |       | 1  | 11/16/15 22:21 | 11/17/15 13:47 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/18/15 23:36 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/18/15 23:36 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:36 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/18/15 23:36 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/18/15 23:36 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/18/15 23:36 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/18/15 23:36 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:36 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/18/15 23:36 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/18/15 23:36 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/18/15 23:36 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/18/15 23:36 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/18/15 23:36 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/18/15 23:36 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/18/15 23:36 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 100     | %     | 70-130       |       | 1  |                | 11/18/15 23:36 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 92      | %     | 70-130       |       | 1  |                | 11/18/15 23:36 | 17060-07-0 |      |
| Toluene-d8 (S)   | 107     | %     | 70-130       |       | 1  |                | 11/18/15 23:36 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW14          |         | Lab ID: 92276154004         |              | Collected: 11/10/15 15:50    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/16/15 22:21 | 11/17/15 14:07 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 64      | %                           | 60-140       |                              | 1                        | 11/16/15 22:21 | 11/17/15 14:07 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/19/15 04:26 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/19/15 04:26 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/19/15 04:26 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/19/15 04:26 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/19/15 04:26 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/19/15 04:26 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/19/15 04:26 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/19/15 04:26 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/19/15 04:26 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/19/15 04:26 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/19/15 04:26 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/19/15 04:26 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/19/15 04:26 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/19/15 04:26 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/19/15 04:26 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 104     | %                           | 70-130       |                              | 1                        |                | 11/19/15 04:26 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 101     | %                           | 70-130       |                              | 1                        |                | 11/19/15 04:26 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 107     | %                           | 70-130       |                              | 1                        |                | 11/19/15 04:26 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW15      Lab ID: 92276154005      Collected: 11/10/15 16:10      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/16/15 22:21 | 11/17/15 14:27 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 100     | %     | 60-140       |       | 1  | 11/16/15 22:21 | 11/17/15 14:27 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/19/15 04:43 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/19/15 04:43 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 04:43 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/19/15 04:43 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/19/15 04:43 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/19/15 04:43 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/19/15 04:43 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 04:43 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/19/15 04:43 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 04:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/19/15 04:43 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 04:43 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/19/15 04:43 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 04:43 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/19/15 04:43 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 107     | %     | 70-130       |       | 1  |                | 11/19/15 04:43 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 101     | %     | 70-130       |       | 1  |                | 11/19/15 04:43 | 17060-07-0 |      |
| Toluene-d8 (S)   | 109     | %     | 70-130       |       | 1  |                | 11/19/15 04:43 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW11      Lab ID: 92276154006      Collected: 11/11/15 14:28      Received: 11/13/15 12:15      Matrix: Water |              |       |              |       |    |                |                |            |      |
|---|--------------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results      | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                  |              |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND           | ug/L  | 0.020        | 0.020 | 1  | 11/16/15 22:21 | 11/17/15 14:47 | 106-93-4   |      |
| <b>Surrogates</b>   |              |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 113          | %     | 60-140       |       | 1  | 11/16/15 22:21 | 11/17/15 14:47 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |              |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | <b>92.2J</b> | ug/L  | 100          | 76.8  | 1  |                | 11/19/15 05:00 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND           | ug/L  | 10.0         | 3.4   | 1  |                | 11/19/15 05:00 | 994-05-8   |      |
| Benzene   | ND           | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 05:00 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND           | ug/L  | 100          | 32.1  | 1  |                | 11/19/15 05:00 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND           | ug/L  | 100          | 57.7  | 1  |                | 11/19/15 05:00 | 75-65-0    |      |
| tert-Butyl Formate  | ND           | ug/L  | 50.0         | 7.3   | 1  |                | 11/19/15 05:00 | 762-75-4   |      |
| 1,2-Dichloroethane  | <b>3.0J</b>  | ug/L  | 5.0          | 1.8   | 1  |                | 11/19/15 05:00 | 107-06-2   |      |
| Diisopropyl ether   | ND           | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 05:00 | 108-20-3   |      |
| Ethanol   | ND           | ug/L  | 200          | 138   | 1  |                | 11/19/15 05:00 | 64-17-5    |      |
| Ethylbenzene  | ND           | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 05:00 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND           | ug/L  | 10.0         | 3.6   | 1  |                | 11/19/15 05:00 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND           | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 05:00 | 1634-04-4  |      |
| Naphthalene   | ND           | ug/L  | 5.0          | 2.0   | 1  |                | 11/19/15 05:00 | 91-20-3    |      |
| Toluene   | ND           | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 05:00 | 108-88-3   |      |
| Xylene (Total)  | ND           | ug/L  | 10.0         | 2.7   | 1  |                | 11/19/15 05:00 | 1330-20-7  |      |
| <b>Surrogates</b>   |              |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 105          | %     | 70-130       |       | 1  |                | 11/19/15 05:00 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 99           | %     | 70-130       |       | 1  |                | 11/19/15 05:00 | 17060-07-0 |      |
| Toluene-d8 (S)  | 106          | %     | 70-130       |       | 1  |                | 11/19/15 05:00 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW12           |         | Lab ID: 92276154007                                      |              | Collected: 11/11/15 12:05 |      | Received: 11/13/15 12:15 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|------|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF   | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |      |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | 0.16    | ug/L   | 0.020        | 0.020                     | 1    | 11/16/15 22:21           | 11/17/15 15:07 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |      |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 119     | %  | 60-140       |                           | 1    | 11/16/15 22:21           | 11/17/15 15:07 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |      |                          |                |               |      |
| tert-Amyl Alcohol            | 2860    | ug/L   | 1250         | 960                       | 12.5 |                          | 11/19/15 17:41 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 125          | 42.5                      | 12.5 |                          | 11/19/15 17:41 | 994-05-8      |      |
| Benzene                      | 1200    | ug/L   | 62.5         | 21.2                      | 12.5 |                          | 11/19/15 17:41 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 1250         | 401                       | 12.5 |                          | 11/19/15 17:41 | 624-95-3      |      |
| tert-Butyl Alcohol           | 1230J   | ug/L   | 1250         | 721                       | 12.5 |                          | 11/19/15 17:41 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 625          | 91.2                      | 12.5 |                          | 11/19/15 17:41 | 762-75-4      |      |
| 1,2-Dichloroethane           | 136     | ug/L   | 62.5         | 22.5                      | 12.5 |                          | 11/19/15 17:41 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 62.5         | 21.2                      | 12.5 |                          | 11/19/15 17:41 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 2500         | 1720                      | 12.5 |                          | 11/19/15 17:41 | 64-17-5       |      |
| Ethylbenzene                 | 97.8    | ug/L   | 62.5         | 20.0                      | 12.5 |                          | 11/19/15 17:41 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 125          | 45.0                      | 12.5 |                          | 11/19/15 17:41 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 62.5         | 21.2                      | 12.5 |                          | 11/19/15 17:41 | 1634-04-4     |      |
| Naphthalene                  | 134     | ug/L   | 62.5         | 25.0                      | 12.5 |                          | 11/19/15 17:41 | 91-20-3       |      |
| Toluene                      | 62.2J   | ug/L   | 62.5         | 20.0                      | 12.5 |                          | 11/19/15 17:41 | 108-88-3      |      |
| Xylene (Total)               | 190     | ug/L   | 125          | 33.8                      | 12.5 |                          | 11/19/15 17:41 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |      |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 108     | %  | 70-130       |                           | 12.5 |                          | 11/19/15 17:41 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 114     | %  | 70-130       |                           | 12.5 |                          | 11/19/15 17:41 | 17060-07-0    |      |
| Toluene-d8 (S)               | 99      | %  | 70-130       |                           | 12.5 |                          | 11/19/15 17:41 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW13           |             | Lab ID: 92276154008         |              | Collected: 11/11/15 10:25    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|-------------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results     | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |             | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND          | ug/L                        | 0.019        | 0.019                        | 1                        | 11/16/15 22:21 | 11/17/15 15:26 | 106-93-4   |      |  |
| <b>Surrogates</b>            |             |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 126         | %                           | 60-140       |                              | 1                        | 11/16/15 22:21 | 11/17/15 15:26 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |             | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | <b>2180</b> | ug/L                        | 500          | 384                          | 5                        |                | 11/19/15 06:59 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND          | ug/L                        | 50.0         | 17.0                         | 5                        |                | 11/19/15 06:59 | 994-05-8   |      |  |
| Benzene                      | <b>825</b>  | ug/L                        | 25.0         | 8.5                          | 5                        |                | 11/19/15 06:59 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND          | ug/L                        | 500          | 160                          | 5                        |                | 11/19/15 06:59 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND          | ug/L                        | 500          | 288                          | 5                        |                | 11/19/15 06:59 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND          | ug/L                        | 250          | 36.5                         | 5                        |                | 11/19/15 06:59 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | <b>70.1</b> | ug/L                        | 25.0         | 9.0                          | 5                        |                | 11/19/15 06:59 | 107-06-2   |      |  |
| Diisopropyl ether            | ND          | ug/L                        | 25.0         | 8.5                          | 5                        |                | 11/19/15 06:59 | 108-20-3   |      |  |
| Ethanol                      | ND          | ug/L                        | 1000         | 689                          | 5                        |                | 11/19/15 06:59 | 64-17-5    |      |  |
| Ethylbenzene                 | <b>35.7</b> | ug/L                        | 25.0         | 8.0                          | 5                        |                | 11/19/15 06:59 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND          | ug/L                        | 50.0         | 18.0                         | 5                        |                | 11/19/15 06:59 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND          | ug/L                        | 25.0         | 8.5                          | 5                        |                | 11/19/15 06:59 | 1634-04-4  |      |  |
| Naphthalene                  | <b>34.9</b> | ug/L                        | 25.0         | 10.0                         | 5                        |                | 11/19/15 06:59 | 91-20-3    |      |  |
| Toluene                      | ND          | ug/L                        | 25.0         | 8.0                          | 5                        |                | 11/19/15 06:59 | 108-88-3   |      |  |
| Xylene (Total)               | <b>56.9</b> | ug/L                        | 50.0         | 13.5                         | 5                        |                | 11/19/15 06:59 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |             |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 105         | %                           | 70-130       |                              | 5                        |                | 11/19/15 06:59 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 108         | %                           | 70-130       |                              | 5                        |                | 11/19/15 06:59 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 98          | %                           | 70-130       |                              | 5                        |                | 11/19/15 06:59 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW14      Lab ID: 92276154009      Collected: 11/11/15 13:47      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/16/15 22:21 | 11/17/15 15:46 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 116     | %     | 60-140       |       | 1  | 11/16/15 22:21 | 11/17/15 15:46 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/19/15 05:34 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/19/15 05:34 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 05:34 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/19/15 05:34 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/19/15 05:34 | 75-65-0    | M1   |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/19/15 05:34 | 762-75-4   | P5   |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/19/15 05:34 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 05:34 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/19/15 05:34 | 64-17-5    | M1   |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 05:34 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/19/15 05:34 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 05:34 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/19/15 05:34 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 05:34 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/19/15 05:34 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 108     | %     | 70-130       |       | 1  |                | 11/19/15 05:34 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %     | 70-130       |       | 1  |                | 11/19/15 05:34 | 17060-07-0 |      |
| Toluene-d8 (S)  | 107     | %     | 70-130       |       | 1  |                | 11/19/15 05:34 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW15           |         | Lab ID: 92276154010         |              | Collected: 11/11/15 09:20    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/16/15 22:23 | 11/17/15 17:25 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 103     | %                           | 60-140       |                              | 1                        | 11/16/15 22:23 | 11/17/15 17:25 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/19/15 05:51 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/19/15 05:51 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/19/15 05:51 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/19/15 05:51 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/19/15 05:51 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/19/15 05:51 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/19/15 05:51 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/19/15 05:51 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/19/15 05:51 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/19/15 05:51 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/19/15 05:51 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/19/15 05:51 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/19/15 05:51 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/19/15 05:51 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/19/15 05:51 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 111     | %                           | 70-130       |                              | 1                        |                | 11/19/15 05:51 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 103     | %                           | 70-130       |                              | 1                        |                | 11/19/15 05:51 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 108     | %                           | 70-130       |                              | 1                        |                | 11/19/15 05:51 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW18           |         | Lab ID: 92276154011         |              | Collected: 11/11/15 17:10    |    | Received: 11/13/15 12:15 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1  | 11/16/15 22:23           | 11/17/15 17:45 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 108     | %                           | 60-140       |                              | 1  | 11/16/15 22:23           | 11/17/15 17:45 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1  |                          | 11/19/15 06:08 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/19/15 06:08 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/19/15 06:08 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1  |                          | 11/19/15 06:08 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1  |                          | 11/19/15 06:08 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/19/15 06:08 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/19/15 06:08 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/19/15 06:08 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1  |                          | 11/19/15 06:08 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/19/15 06:08 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/19/15 06:08 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/19/15 06:08 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/19/15 06:08 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/19/15 06:08 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/19/15 06:08 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 110     | %                           | 70-130       |                              | 1  |                          | 11/19/15 06:08 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 104     | %                           | 70-130       |                              | 1  |                          | 11/19/15 06:08 | 17060-07-0    |      |
| Toluene-d8 (S)               | 108     | %                           | 70-130       |                              | 1  |                          | 11/19/15 06:08 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW22           |         | Lab ID: 92276154012         |              | Collected: 11/11/15 15:45    |     | Received: 11/13/15 12:15 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF  | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |     |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | 31.0    | ug/L                        | 2.0          | 2.0                          | 100 | 11/16/15 22:23           | 11/18/15 12:31 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |     |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 0       | %                           | 60-140       |                              | 100 | 11/16/15 22:23           | 11/18/15 12:31 | 301-79-56     | S4   |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |     |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 25000        | 19200                        | 250 |                          | 11/19/15 07:17 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 2500         | 850                          | 250 |                          | 11/19/15 07:17 | 994-05-8      |      |
| Benzene                      | 8690    | ug/L                        | 1250         | 425                          | 250 |                          | 11/19/15 07:17 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 25000        | 8020                         | 250 |                          | 11/19/15 07:17 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 25000        | 14400                        | 250 |                          | 11/19/15 07:17 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 12500        | 1820                         | 250 |                          | 11/19/15 07:17 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 1250         | 450                          | 250 |                          | 11/19/15 07:17 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 1250         | 425                          | 250 |                          | 11/19/15 07:17 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 50000        | 34400                        | 250 |                          | 11/19/15 07:17 | 64-17-5       |      |
| Ethylbenzene                 | 1980    | ug/L                        | 1250         | 400                          | 250 |                          | 11/19/15 07:17 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 2500         | 900                          | 250 |                          | 11/19/15 07:17 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 1250         | 425                          | 250 |                          | 11/19/15 07:17 | 1634-04-4     |      |
| Naphthalene                  | 1260    | ug/L                        | 1250         | 500                          | 250 |                          | 11/19/15 07:17 | 91-20-3       |      |
| Toluene                      | 26800   | ug/L                        | 1250         | 400                          | 250 |                          | 11/19/15 07:17 | 108-88-3      |      |
| Xylene (Total)               | 17700   | ug/L                        | 2500         | 675                          | 250 |                          | 11/19/15 07:17 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |     |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 100     | %                           | 70-130       |                              | 250 |                          | 11/19/15 07:17 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 100     | %                           | 70-130       |                              | 250 |                          | 11/19/15 07:17 | 17060-07-0    |      |
| Toluene-d8 (S)               | 103     | %                           | 70-130       |                              | 250 |                          | 11/19/15 07:17 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW28      Lab ID: 92276154013      Collected: 11/10/15 17:18      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/16/15 22:23 | 11/17/15 18:26 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 106     | %     | 60-140       |       | 1  | 11/16/15 22:23 | 11/17/15 18:26 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/19/15 06:25 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/19/15 06:25 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 06:25 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/19/15 06:25 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/19/15 06:25 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/19/15 06:25 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/19/15 06:25 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 06:25 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/19/15 06:25 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 06:25 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/19/15 06:25 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/15 06:25 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/19/15 06:25 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/19/15 06:25 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/19/15 06:25 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 111     | %     | 70-130       |       | 1  |                | 11/19/15 06:25 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 101     | %     | 70-130       |       | 1  |                | 11/19/15 06:25 | 17060-07-0 |      |
| Toluene-d8 (S)  | 108     | %     | 70-130       |       | 1  |                | 11/19/15 06:25 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-MW30           |             | Lab ID: 92276154014         |              | Collected: 11/11/15 12:57    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|-------------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results     | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |             | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND          | ug/L                        | 0.019        | 0.019                        | 1                        | 11/16/15 22:23 | 11/17/15 18:46 | 106-93-4   |      |  |
| <b>Surrogates</b>            |             |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 122         | %                           | 60-140       |                              | 1                        | 11/16/15 22:23 | 11/17/15 18:46 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |             | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | <b>1680</b> | ug/L                        | 250          | 192                          | 2.5                      |                | 11/19/15 17:58 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND          | ug/L                        | 25.0         | 8.5                          | 2.5                      |                | 11/19/15 17:58 | 994-05-8   |      |  |
| Benzene                      | <b>311</b>  | ug/L                        | 12.5         | 4.2                          | 2.5                      |                | 11/19/15 17:58 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND          | ug/L                        | 250          | 80.2                         | 2.5                      |                | 11/19/15 17:58 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | <b>494</b>  | ug/L                        | 250          | 144                          | 2.5                      |                | 11/19/15 17:58 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND          | ug/L                        | 125          | 18.2                         | 2.5                      |                | 11/19/15 17:58 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | <b>28.5</b> | ug/L                        | 12.5         | 4.5                          | 2.5                      |                | 11/19/15 17:58 | 107-06-2   |      |  |
| Diisopropyl ether            | ND          | ug/L                        | 12.5         | 4.2                          | 2.5                      |                | 11/19/15 17:58 | 108-20-3   |      |  |
| Ethanol                      | ND          | ug/L                        | 500          | 344                          | 2.5                      |                | 11/19/15 17:58 | 64-17-5    |      |  |
| Ethylbenzene                 | <b>6.5J</b> | ug/L                        | 12.5         | 4.0                          | 2.5                      |                | 11/19/15 17:58 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND          | ug/L                        | 25.0         | 9.0                          | 2.5                      |                | 11/19/15 17:58 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND          | ug/L                        | 12.5         | 4.2                          | 2.5                      |                | 11/19/15 17:58 | 1634-04-4  |      |  |
| Naphthalene                  | <b>23.5</b> | ug/L                        | 12.5         | 5.0                          | 2.5                      |                | 11/19/15 17:58 | 91-20-3    |      |  |
| Toluene                      | <b>6.4J</b> | ug/L                        | 12.5         | 4.0                          | 2.5                      |                | 11/19/15 17:58 | 108-88-3   |      |  |
| Xylene (Total)               | <b>58.4</b> | ug/L                        | 25.0         | 6.8                          | 2.5                      |                | 11/19/15 17:58 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |             |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 105         | %                           | 70-130       |                              | 2.5                      |                | 11/19/15 17:58 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 111         | %                           | 70-130       |                              | 2.5                      |                | 11/19/15 17:58 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 96          | %                           | 70-130       |                              | 2.5                      |                | 11/19/15 17:58 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-TW5      Lab ID: 92276154015      Collected: 11/11/15 11:25      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                 |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/16/15 22:23 | 11/17/15 19:06 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 113     | %     | 60-140       |       | 1  | 11/16/15 22:23 | 11/17/15 19:06 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/17/15 23:28 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/17/15 23:28 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/17/15 23:28 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/17/15 23:28 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/17/15 23:28 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/17/15 23:28 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/17/15 23:28 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/17/15 23:28 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/17/15 23:28 | 64-17-5    | L3   |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/17/15 23:28 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/17/15 23:28 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/17/15 23:28 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/17/15 23:28 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/17/15 23:28 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/17/15 23:28 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 98      | %     | 70-130       |       | 1  |                | 11/17/15 23:28 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 98      | %     | 70-130       |       | 1  |                | 11/17/15 23:28 | 17060-07-0 |      |
| Toluene-d8 (S)   | 99      | %     | 70-130       |       | 1  |                | 11/17/15 23:28 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-DUP2           |         | Lab ID: 92276154016         |              | Collected: 11/11/15 00:00    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | 0.15    | ug/L                        | 0.020        | 0.020                        | 1                        | 11/18/15 20:15 | 11/18/15 21:29 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 115     | %                           | 60-140       |                              | 1                        | 11/18/15 20:15 | 11/18/15 21:29 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | 3090    | ug/L                        | 1000         | 768                          | 10                       |                | 11/19/15 08:08 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 100          | 34.0                         | 10                       |                | 11/19/15 08:08 | 994-05-8   |      |  |
| Benzene                      | 1260    | ug/L                        | 50.0         | 17.0                         | 10                       |                | 11/19/15 08:08 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 1000         | 321                          | 10                       |                | 11/19/15 08:08 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | 1260    | ug/L                        | 1000         | 577                          | 10                       |                | 11/19/15 08:08 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 500          | 73.0                         | 10                       |                | 11/19/15 08:08 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | 125     | ug/L                        | 50.0         | 18.0                         | 10                       |                | 11/19/15 08:08 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 50.0         | 17.0                         | 10                       |                | 11/19/15 08:08 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 2000         | 1380                         | 10                       |                | 11/19/15 08:08 | 64-17-5    |      |  |
| Ethylbenzene                 | 93.1    | ug/L                        | 50.0         | 16.0                         | 10                       |                | 11/19/15 08:08 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 100          | 36.0                         | 10                       |                | 11/19/15 08:08 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 50.0         | 17.0                         | 10                       |                | 11/19/15 08:08 | 1634-04-4  |      |  |
| Naphthalene                  | 115     | ug/L                        | 50.0         | 20.0                         | 10                       |                | 11/19/15 08:08 | 91-20-3    |      |  |
| Toluene                      | 58.9    | ug/L                        | 50.0         | 16.0                         | 10                       |                | 11/19/15 08:08 | 108-88-3   |      |  |
| Xylene (Total)               | 182     | ug/L                        | 100          | 27.0                         | 10                       |                | 11/19/15 08:08 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 101     | %                           | 70-130       |                              | 10                       |                | 11/19/15 08:08 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 106     | %                           | 70-130       |                              | 10                       |                | 11/19/15 08:08 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 100     | %                           | 70-130       |                              | 10                       |                | 11/19/15 08:08 | 2037-26-5  |      |  |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: TRIP BLANK          |         |       |              |      |    |          |                |            |      |
|-----------------------------|---------|-------|--------------|------|----|----------|----------------|------------|------|
| Lab ID: 92276154017         |         |       |              |      |    |          |                |            |      |
| Collected: 11/11/15 00:00   |         |       |              |      |    |          |                |            |      |
| Received: 11/13/15 12:15    |         |       |              |      |    |          |                |            |      |
| Matrix: Water               |         |       |              |      |    |          |                |            |      |
| Parameters                  | Results | Units | Report Limit | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         |       |              |      |    |          |                |            |      |
| Analytical Method: EPA 8260 |         |       |              |      |    |          |                |            |      |
| tert-Amyl Alcohol           | ND      | ug/L  | 100          | 76.8 | 1  |          | 11/17/15 23:45 | 75-85-4    |      |
| tert-Amylmethyl ether       | ND      | ug/L  | 10.0         | 3.4  | 1  |          | 11/17/15 23:45 | 994-05-8   |      |
| Benzene                     | ND      | ug/L  | 5.0          | 1.7  | 1  |          | 11/17/15 23:45 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol      | ND      | ug/L  | 100          | 32.1 | 1  |          | 11/17/15 23:45 | 624-95-3   |      |
| tert-Butyl Alcohol          | ND      | ug/L  | 100          | 57.7 | 1  |          | 11/17/15 23:45 | 75-65-0    |      |
| tert-Butyl Formate          | ND      | ug/L  | 50.0         | 7.3  | 1  |          | 11/17/15 23:45 | 762-75-4   |      |
| 1,2-Dichloroethane          | ND      | ug/L  | 5.0          | 1.8  | 1  |          | 11/17/15 23:45 | 107-06-2   |      |
| Diisopropyl ether           | ND      | ug/L  | 5.0          | 1.7  | 1  |          | 11/17/15 23:45 | 108-20-3   |      |
| Ethanol                     | ND      | ug/L  | 200          | 138  | 1  |          | 11/17/15 23:45 | 64-17-5    | L3   |
| Ethylbenzene                | ND      | ug/L  | 5.0          | 1.6  | 1  |          | 11/17/15 23:45 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | ND      | ug/L  | 10.0         | 3.6  | 1  |          | 11/17/15 23:45 | 637-92-3   |      |
| Methyl-tert-butyl ether     | ND      | ug/L  | 5.0          | 1.7  | 1  |          | 11/17/15 23:45 | 1634-04-4  |      |
| Naphthalene                 | ND      | ug/L  | 5.0          | 2.0  | 1  |          | 11/17/15 23:45 | 91-20-3    |      |
| Toluene                     | ND      | ug/L  | 5.0          | 1.6  | 1  |          | 11/17/15 23:45 | 108-88-3   |      |
| Xylene (Total)              | ND      | ug/L  | 10.0         | 2.7  | 1  |          | 11/17/15 23:45 | 1330-20-7  |      |
| <b>Surrogates</b>           |         |       |              |      |    |          |                |            |      |
| 4-Bromofluorobenzene (S)    | 100     | %     | 70-130       |      | 1  |          | 11/17/15 23:45 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 99      | %     | 70-130       |      | 1  |          | 11/17/15 23:45 | 17060-07-0 |      |
| Toluene-d8 (S)              | 99      | %     | 70-130       |      | 1  |          | 11/17/15 23:45 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW1 PREGAC      Lab ID: 92276154018      Collected: 11/10/15 10:58      Received: 11/13/15 12:15      Matrix: Water |         |   |                 |       |    |                |                |            |      |
|--|---------|---|-----------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units   | Report<br>Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b>   |         | Analytical Method: EPA 8011      Preparation Method: EPA 8011 |                 |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019           | 0.019 | 1  | 11/18/15 20:15 | 11/18/15 21:49 | 106-93-4   |      |
| <b>Surrogates</b>  |         |   |                 |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 103     | %   | 60-140          |       | 1  | 11/18/15 20:15 | 11/18/15 21:49 | 301-79-56  |      |
| <b>8260 MSV</b>  |         | Analytical Method: EPA 8260                                   |                 |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100             | 76.8  | 1  |                | 11/20/15 05:53 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0            | 3.4   | 1  |                | 11/20/15 05:53 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 05:53 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100             | 32.1  | 1  |                | 11/20/15 05:53 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100             | 57.7  | 1  |                | 11/20/15 05:53 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0            | 7.3   | 1  |                | 11/20/15 05:53 | 762-75-4   |      |
| 1,2-Dichloroethane   | 3.8J    | ug/L  | 5.0             | 1.8   | 1  |                | 11/20/15 05:53 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 05:53 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200             | 138   | 1  |                | 11/20/15 05:53 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0             | 1.6   | 1  |                | 11/20/15 05:53 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0            | 3.6   | 1  |                | 11/20/15 05:53 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 05:53 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0             | 2.0   | 1  |                | 11/20/15 05:53 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0             | 1.6   | 1  |                | 11/20/15 05:53 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0            | 2.7   | 1  |                | 11/20/15 05:53 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |   |                 |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 110     | %   | 70-130          |       | 1  |                | 11/20/15 05:53 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 118     | %   | 70-130          |       | 1  |                | 11/20/15 05:53 | 17060-07-0 |      |
| Toluene-d8 (S)   | 108     | %   | 70-130          |       | 1  |                | 11/20/15 05:53 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW1 POST GAC    Lab ID: 92276154019    Collected: 11/10/15 11:20    Received: 11/13/15 12:15    Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011    Preparation Method: EPA 8011                                     |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:15 | 11/18/15 22:49 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 102     | %     | 60-140       |       | 1  | 11/18/15 20:15 | 11/18/15 22:49 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 06:10 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 06:10 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 06:10 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 06:10 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 06:10 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 06:10 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 06:10 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 06:10 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 06:10 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 06:10 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 06:10 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 06:10 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 06:10 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 06:10 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 06:10 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 110     | %     | 70-130       |       | 1  |                | 11/20/15 06:10 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 115     | %     | 70-130       |       | 1  |                | 11/20/15 06:10 | 17060-07-0 |      |
| Toluene-d8 (S)   | 105     | %     | 70-130       |       | 1  |                | 11/20/15 06:10 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW2           |         | Lab ID: 92276154020         |              | Collected: 11/10/15 12:30    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:15 | 11/18/15 23:29 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 77      | %                           | 60-140       |                              | 1                        | 11/18/15 20:15 | 11/18/15 23:29 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/20/15 06:27 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/20/15 06:27 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 06:27 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/20/15 06:27 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/20/15 06:27 | 75-65-0    | M1   |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/20/15 06:27 | 762-75-4   | P5   |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/20/15 06:27 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 06:27 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/20/15 06:27 | 64-17-5    | M1   |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 06:27 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/20/15 06:27 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 06:27 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/20/15 06:27 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 06:27 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/20/15 06:27 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 112     | %                           | 70-130       |                              | 1                        |                | 11/20/15 06:27 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 117     | %                           | 70-130       |                              | 1                        |                | 11/20/15 06:27 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 105     | %                           | 70-130       |                              | 1                        |                | 11/20/15 06:27 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW3           |         | Lab ID: 92276154021                                      |              | Collected: 11/10/15 12:05 |    | Received: 11/13/15 12:15 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1  | 11/18/15 20:15           | 11/18/15 23:49 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 61      | %  | 60-140       |                           | 1  | 11/18/15 20:15           | 11/18/15 23:49 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 76.8                      | 1  |                          | 11/20/15 06:44 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1  |                          | 11/20/15 06:44 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/20/15 06:44 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1  |                          | 11/20/15 06:44 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1  |                          | 11/20/15 06:44 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1  |                          | 11/20/15 06:44 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 11/20/15 06:44 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/20/15 06:44 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1  |                          | 11/20/15 06:44 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/20/15 06:44 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1  |                          | 11/20/15 06:44 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/20/15 06:44 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 11/20/15 06:44 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/20/15 06:44 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 11/20/15 06:44 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 108     | %  | 70-130       |                           | 1  |                          | 11/20/15 06:44 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 118     | %  | 70-130       |                           | 1  |                          | 11/20/15 06:44 | 17060-07-0    |      |
| Toluene-d8 (S)               | 106     | %  | 70-130       |                           | 1  |                          | 11/20/15 06:44 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW4           |         | Lab ID: 92276154022         |              | Collected: 11/10/15 11:50    |    | Received: 11/13/15 12:15 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1  | 11/18/15 20:15           | 11/19/15 00:09 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 103     | %                           | 60-140       |                              | 1  | 11/18/15 20:15           | 11/19/15 00:09 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1  |                          | 11/20/15 07:18 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/20/15 07:18 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/20/15 07:18 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1  |                          | 11/20/15 07:18 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1  |                          | 11/20/15 07:18 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/20/15 07:18 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/20/15 07:18 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/20/15 07:18 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1  |                          | 11/20/15 07:18 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/20/15 07:18 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/20/15 07:18 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/20/15 07:18 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/20/15 07:18 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/20/15 07:18 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/20/15 07:18 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 110     | %                           | 70-130       |                              | 1  |                          | 11/20/15 07:18 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 117     | %                           | 70-130       |                              | 1  |                          | 11/20/15 07:18 | 17060-07-0    |      |
| Toluene-d8 (S)               | 104     | %                           | 70-130       |                              | 1  |                          | 11/20/15 07:18 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW5      Lab ID: 92276154023      Collected: 11/10/15 11:15      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:16 | 11/19/15 00:29 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 104     | %     | 60-140       |       | 1  | 11/18/15 20:16 | 11/19/15 00:29 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 07:35 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 07:35 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 07:35 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 07:35 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 07:35 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 07:35 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 07:35 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 07:35 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 07:35 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 07:35 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 07:35 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 07:35 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 07:35 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 07:35 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 07:35 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 107     | %     | 70-130       |       | 1  |                | 11/20/15 07:35 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 116     | %     | 70-130       |       | 1  |                | 11/20/15 07:35 | 17060-07-0 |      |
| Toluene-d8 (S)  | 107     | %     | 70-130       |       | 1  |                | 11/20/15 07:35 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW6           |         | Lab ID: 92276154024         |              | Collected: 11/10/15 11:35    | Received: 11/13/15 12:15 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:16 | 11/19/15 00:49 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 101     | %                           | 60-140       |                              | 1                        | 11/18/15 20:16 | 11/19/15 00:49 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/20/15 07:53 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/20/15 07:53 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 07:53 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/20/15 07:53 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/20/15 07:53 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/20/15 07:53 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/20/15 07:53 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 07:53 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/20/15 07:53 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 07:53 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/20/15 07:53 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 07:53 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/20/15 07:53 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 07:53 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/20/15 07:53 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 108     | %                           | 70-130       |                              | 1                        |                | 11/20/15 07:53 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 120     | %                           | 70-130       |                              | 1                        |                | 11/20/15 07:53 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 105     | %                           | 70-130       |                              | 1                        |                | 11/20/15 07:53 | 2037-26-5  |      |  |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW7      Lab ID: 92276154025      Collected: 11/10/15 13:30      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:16 | 11/19/15 01:09 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 107     | %     | 60-140       |       | 1  | 11/18/15 20:16 | 11/19/15 01:09 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 08:10 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 08:10 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:10 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 08:10 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 08:10 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 08:10 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 08:10 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:10 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 08:10 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 08:10 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 08:10 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:10 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 08:10 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 08:10 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 08:10 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 109     | %     | 70-130       |       | 1  |                | 11/20/15 08:10 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 119     | %     | 70-130       |       | 1  |                | 11/20/15 08:10 | 17060-07-0 |      |
| Toluene-d8 (S)  | 106     | %     | 70-130       |       | 1  |                | 11/20/15 08:10 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW8 PRE GAC      Lab ID: 92276154026      Collected: 11/10/15 13:50      Received: 11/13/15 12:15      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:16 | 11/19/15 01:29 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 98      | %     | 60-140       |       | 1  | 11/18/15 20:16 | 11/19/15 01:29 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 08:27 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 08:27 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:27 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 08:27 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 08:27 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 08:27 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 08:27 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:27 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 08:27 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 08:27 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 08:27 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:27 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 08:27 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 08:27 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 08:27 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 111     | %     | 70-130       |       | 1  |                | 11/20/15 08:27 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 123     | %     | 70-130       |       | 1  |                | 11/20/15 08:27 | 17060-07-0 |      |
| Toluene-d8 (S)  | 106     | %     | 70-130       |       | 1  |                | 11/20/15 08:27 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW8 POST GAC    Lab ID: 92276154027    Collected: 11/10/15 14:05    Received: 11/13/15 12:15    Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011    Preparation Method: EPA 8011                                     |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/19/15 18:30 | 11/20/15 00:49 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 94      | %     | 60-140       |       | 1  | 11/19/15 18:30 | 11/20/15 00:49 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 08:44 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 08:44 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:44 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 08:44 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 08:44 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 08:44 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 08:44 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:44 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 08:44 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 08:44 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 08:44 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 08:44 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 08:44 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 08:44 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 08:44 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 111     | %     | 70-130       |       | 1  |                | 11/20/15 08:44 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 119     | %     | 70-130       |       | 1  |                | 11/20/15 08:44 | 17060-07-0 |      |
| Toluene-d8 (S)   | 108     | %     | 70-130       |       | 1  |                | 11/20/15 08:44 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW9      Lab ID: 92276154028      Collected: 11/10/15 14:20      Received: 11/13/15 12:15      Matrix: Water |         |       |                 |       |    |                |                |            |      |
|---|---------|-------|-----------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report<br>Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                  |         |       |                 |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019           | 0.019 | 1  | 11/19/15 18:30 | 11/20/15 01:49 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |                 |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 106     | %     | 60-140          |       | 1  | 11/19/15 18:30 | 11/20/15 01:49 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |                 |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100             | 76.8  | 1  |                | 11/20/15 09:01 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0            | 3.4   | 1  |                | 11/20/15 09:01 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 09:01 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100             | 32.1  | 1  |                | 11/20/15 09:01 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100             | 57.7  | 1  |                | 11/20/15 09:01 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0            | 7.3   | 1  |                | 11/20/15 09:01 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0             | 1.8   | 1  |                | 11/20/15 09:01 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 09:01 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200             | 138   | 1  |                | 11/20/15 09:01 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0             | 1.6   | 1  |                | 11/20/15 09:01 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0            | 3.6   | 1  |                | 11/20/15 09:01 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 09:01 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0             | 2.0   | 1  |                | 11/20/15 09:01 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0             | 1.6   | 1  |                | 11/20/15 09:01 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0            | 2.7   | 1  |                | 11/20/15 09:01 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |                 |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 111     | %     | 70-130          |       | 1  |                | 11/20/15 09:01 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 122     | %     | 70-130          |       | 1  |                | 11/20/15 09:01 | 17060-07-0 |      |
| Toluene-d8 (S)  | 106     | %     | 70-130          |       | 1  |                | 11/20/15 09:01 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

| Sample: 07960-WSW10      Lab ID: 92276154029      Collected: 11/10/15 14:40      Received: 11/13/15 12:15      Matrix: Water |         |       |                 |       |    |                |                |            |      |
|--|---------|-------|-----------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report<br>Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |                 |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020           | 0.020 | 1  | 11/19/15 18:30 | 11/20/15 02:09 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |                 |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 101     | %     | 60-140          |       | 1  | 11/19/15 18:30 | 11/20/15 02:09 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |                 |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100             | 76.8  | 1  |                | 11/20/15 09:18 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0            | 3.4   | 1  |                | 11/20/15 09:18 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 09:18 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100             | 32.1  | 1  |                | 11/20/15 09:18 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100             | 57.7  | 1  |                | 11/20/15 09:18 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0            | 7.3   | 1  |                | 11/20/15 09:18 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0             | 1.8   | 1  |                | 11/20/15 09:18 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 09:18 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200             | 138   | 1  |                | 11/20/15 09:18 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0             | 1.6   | 1  |                | 11/20/15 09:18 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0            | 3.6   | 1  |                | 11/20/15 09:18 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0             | 1.7   | 1  |                | 11/20/15 09:18 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0             | 2.0   | 1  |                | 11/20/15 09:18 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0             | 1.6   | 1  |                | 11/20/15 09:18 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0            | 2.7   | 1  |                | 11/20/15 09:18 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |                 |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 112     | %     | 70-130          |       | 1  |                | 11/20/15 09:18 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 122     | %     | 70-130          |       | 1  |                | 11/20/15 09:18 | 17060-07-0 |      |
| Toluene-d8 (S)   | 109     | %     | 70-130          |       | 1  |                | 11/20/15 09:18 | 2037-26-5  |      |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

QC Batch: MSV/34325 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276154001, 92276154002, 92276154003

METHOD BLANK: 1608506 Matrix: Water

Associated Lab Samples: 92276154001, 92276154002, 92276154003

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/18/15 16:30 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/18/15 16:30 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/18/15 16:30 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/18/15 16:30 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/18/15 16:30 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/18/15 16:30 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/18/15 16:30 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/18/15 16:30 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/18/15 16:30 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/18/15 16:30 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/18/15 16:30 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/18/15 16:30 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/18/15 16:30 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/18/15 16:30 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/18/15 16:30 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 96           | 70-130          |      | 11/18/15 16:30 |            |
| 4-Bromofluorobenzene (S)  | %     | 103          | 70-130          |      | 11/18/15 16:30 |            |
| Toluene-d8 (S)            | %     | 109          | 70-130          |      | 11/18/15 16:30 |            |

LABORATORY CONTROL SAMPLE: 1608507

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 44.3       | 89        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1140       | 114       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 57.2       | 114       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 1900       | 95        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 111        | 111       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 48.9       | 98        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 57.3       | 115       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 52.4       | 105       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1070       | 107       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 106        | 106       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 531        | 106       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 437        | 109       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 49.9       | 100       | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 145        | 97        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 98        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 96        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| MATRIX SPIKE SAMPLE: 1609538 |       | 92276149023 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,2-Dichloroethane           | ug/L  | ND          | 80    | 75.0   | 93    | 70-130 |            |
| 3,3-Dimethyl-1-Butanol       | ug/L  | ND          | 1600  | 1740   | 109   | 70-130 |            |
| Benzene                      | ug/L  | ND          | 80    | 91.1   | 114   | 70-130 |            |
| Diisopropyl ether            | ug/L  | ND          | 80    | 81.3   | 102   | 70-130 |            |
| Ethanol                      | ug/L  | ND          | 3200  | 2820   | 88    | 70-130 |            |
| Ethyl-tert-butyl ether       | ug/L  | ND          | 160   | 157    | 98    | 70-130 |            |
| Ethylbenzene                 | ug/L  | 415         | 80    | 503    | 110   | 70-130 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 80    | 85.6   | 107   | 70-130 |            |
| Naphthalene                  | ug/L  | 441         | 80    | 548    | 133   | 70-130 | M1         |
| tert-Amyl Alcohol            | ug/L  | ND          | 1600  | 1580   | 99    | 70-130 |            |
| tert-Amylmethyl ether        | ug/L  | ND          | 160   | 155    | 97    | 70-130 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 800   | 1070   | 134   | 70-130 | M1         |
| tert-Butyl Formate           | ug/L  | ND          | 640   | 169J   | 26    | 70-130 | P5         |
| Toluene                      | ug/L  | ND          | 80    | 86.2   | 105   | 70-130 |            |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 98    | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 98    | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 101   | 70-130 |            |

SAMPLE DUPLICATE: 1609539

| Parameter                 | Units | 92276143016 | Dup    | RPD | Max | Qualifiers |
|---------------------------|-------|-------------|--------|-----|-----|------------|
|                           |       | Result      | Result |     | RPD |            |
| 1,2-Dichloroethane        | ug/L  | ND          | ND     |     | 30  |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND     |     | 30  |            |
| Benzene                   | ug/L  | 44.9        | 47.8   | 6   | 30  |            |
| Diisopropyl ether         | ug/L  | ND          | ND     |     | 30  |            |
| Ethanol                   | ug/L  | ND          | ND     |     | 30  |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND     |     | 30  |            |
| Ethylbenzene              | ug/L  | 368         | 383    | 4   | 30  |            |
| Methyl-tert-butyl ether   | ug/L  | ND          | ND     |     | 30  |            |
| Naphthalene               | ug/L  | 214         | 210    | 2   | 30  |            |
| tert-Amyl Alcohol         | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Alcohol        | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Formate        | ug/L  | ND          | ND     |     | 30  |            |
| Toluene                   | ug/L  | ND          | ND     |     | 30  |            |
| Xylene (Total)            | ug/L  | 251         | 264    | 5   | 30  |            |
| 1,2-Dichloroethane-d4 (S) | %     | 96          | 95     | 1   |     |            |
| 4-Bromofluorobenzene (S)  | %     | 98          | 98     | 1   |     |            |
| Toluene-d8 (S)            | %     | 109         | 108    | 1   |     |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

QC Batch: MSV/34326 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276154004, 92276154005, 92276154006, 92276154008, 92276154009, 92276154010, 92276154011, 92276154012, 92276154013

METHOD BLANK: 1608515 Matrix: Water  
Associated Lab Samples: 92276154004, 92276154005, 92276154006, 92276154008, 92276154009, 92276154010, 92276154011, 92276154012, 92276154013

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/19/15 03:17 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/19/15 03:17 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 03:17 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 03:17 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/19/15 03:17 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/19/15 03:17 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/19/15 03:17 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 03:17 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/19/15 03:17 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/19/15 03:17 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/19/15 03:17 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/19/15 03:17 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/19/15 03:17 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/19/15 03:17 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/19/15 03:17 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 70-130          |      | 11/19/15 03:17 |            |
| 4-Bromofluorobenzene (S)  | %     | 103          | 70-130          |      | 11/19/15 03:17 |            |
| Toluene-d8 (S)            | %     | 109          | 70-130          |      | 11/19/15 03:17 |            |

LABORATORY CONTROL SAMPLE: 1608516

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 43.8       | 88        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1100       | 110       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 52.8       | 106       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 55.9       | 112       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2090       | 104       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 107        | 107       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 46.5       | 93        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 56.5       | 113       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 50.4       | 101       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1080       | 108       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 102        | 102       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 557        | 111       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 424        | 106       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 47.7       | 95        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 138        | 92        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 102       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

LABORATORY CONTROL SAMPLE: 1608516

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 98        | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 97        | 70-130       |            |

MATRIX SPIKE SAMPLE: 1609607

| Parameter                 | Units | 92276154009 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20          | 20.2      | 99       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400         | 450       | 112      | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20          | 24.0      | 120      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20          | 22.0      | 110      | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800         | 1220      | 152      | 70-130       | M1         |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40          | 43.0      | 107      | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20          | 20.9      | 105      | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20          | 23.3      | 117      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20          | 21.7      | 109      | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400         | 454       | 107      | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40          | 39.4      | 99       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200         | 294       | 146      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20          | 21.6      | 108      | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 102      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 101      | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 99       | 70-130       |            |

SAMPLE DUPLICATE: 1608518

| Parameter                 | Units | 92276154006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 3.0J               | 3.0J       |     | 30      |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether         | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                   | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene               | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol         | ug/L  | 92.2J              | 111        |     | 30      |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Formate        | ug/L  | ND                 | ND         |     | 30      |            |
| Toluene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Xylene (Total)            | ug/L  | ND                 | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 99                 | 103        | 4   |         |            |
| 4-Bromofluorobenzene (S)  | %     | 105                | 106        | 1   |         |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

SAMPLE DUPLICATE: 1608518

| Parameter      | Units | 92276154006<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|----------------|-------|-----------------------|---------------|-----|------------|------------|
| Toluene-d8 (S) | %     | 106                   | 108           | 2   |            |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

QC Batch: MSV/34327 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276154015, 92276154017

METHOD BLANK: 1608665 Matrix: Water

Associated Lab Samples: 92276154015, 92276154017

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/17/15 19:18 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/17/15 19:18 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/17/15 19:18 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/17/15 19:18 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/17/15 19:18 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/17/15 19:18 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/17/15 19:18 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/17/15 19:18 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/17/15 19:18 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/17/15 19:18 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/17/15 19:18 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/17/15 19:18 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/17/15 19:18 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/17/15 19:18 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/17/15 19:18 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 70-130          |      | 11/17/15 19:18 |            |
| 4-Bromofluorobenzene (S)  | %     | 99           | 70-130          |      | 11/17/15 19:18 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          |      | 11/17/15 19:18 |            |

LABORATORY CONTROL SAMPLE: 1608666

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 44.7       | 89        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1230       | 123       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 50.9       | 102       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 49.6       | 99        | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 3130       | 157       | 70-130 L0    |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 94.5       | 95        | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 48.9       | 98        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 49.8       | 100       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 58.7       | 117       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1210       | 121       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 97.9       | 98        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 589        | 118       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 410        | 102       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 48.2       | 96        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 147        | 98        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 96        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 102       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| MATRIX SPIKE SAMPLE: 1608667 |       | 92276192006 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,2-Dichloroethane           | ug/L  | ND          | 20    | 18.0   | 89    | 70-130 |            |
| 3,3-Dimethyl-1-Butanol       | ug/L  | ND          | 400   | 578    | 144   | 70-130 | M1         |
| Benzene                      | ug/L  | 5.1         | 20    | 29.2   | 120   | 70-130 |            |
| Diisopropyl ether            | ug/L  | ND          | 20    | 24.1   | 116   | 70-130 |            |
| Ethanol                      | ug/L  | ND          | 800   | 1410   | 176   | 70-130 | M0         |
| Ethyl-tert-butyl ether       | ug/L  | ND          | 40    | 42.5   | 106   | 70-130 |            |
| Ethylbenzene                 | ug/L  | 28.3        | 20    | 50.8   | 113   | 70-130 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 20    | 23.1   | 111   | 70-130 |            |
| Naphthalene                  | ug/L  | 26.1        | 20    | 50.8   | 124   | 70-130 |            |
| tert-Amyl Alcohol            | ug/L  | ND          | 400   | 527    | 130   | 70-130 |            |
| tert-Amylmethyl ether        | ug/L  | ND          | 40    | 43.2   | 108   | 70-130 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 200   | 397    | 195   | 70-130 | M1         |
| tert-Butyl Formate           | ug/L  | ND          | 160   | ND     | 0     | 70-130 | P5         |
| Toluene                      | ug/L  | ND          | 20    | 23.0   | 112   | 70-130 |            |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 90    | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 102   | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 103   | 70-130 |            |

SAMPLE DUPLICATE: 1608668

| Parameter                 | Units | 92276192007 | Dup    | RPD | Max | Qualifiers |
|---------------------------|-------|-------------|--------|-----|-----|------------|
|                           |       | Result      | Result |     | RPD |            |
| 1,2-Dichloroethane        | ug/L  | ND          | ND     |     | 30  |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND     |     | 30  |            |
| Benzene                   | ug/L  | ND          | ND     |     | 30  |            |
| Diisopropyl ether         | ug/L  | ND          | ND     |     | 30  |            |
| Ethanol                   | ug/L  | ND          | ND     |     | 30  |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND     |     | 30  |            |
| Ethylbenzene              | ug/L  | ND          | ND     |     | 30  |            |
| Methyl-tert-butyl ether   | ug/L  | ND          | ND     |     | 30  |            |
| Naphthalene               | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amyl Alcohol         | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Alcohol        | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Formate        | ug/L  | ND          | ND     |     | 30  |            |
| Toluene                   | ug/L  | ND          | ND     |     | 30  |            |
| Xylene (Total)            | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloroethane-d4 (S) | %     | 94          | 97     | 4   |     |            |
| 4-Bromofluorobenzene (S)  | %     | 97          | 100    | 2   |     |            |
| Toluene-d8 (S)            | %     | 96          | 104    | 8   |     |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

QC Batch: MSV/34341 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276154016

METHOD BLANK: 1609774 Matrix: Water  
Associated Lab Samples: 92276154016

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/19/15 03:34 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/19/15 03:34 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 03:34 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 03:34 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/19/15 03:34 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/19/15 03:34 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/19/15 03:34 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 03:34 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/19/15 03:34 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/19/15 03:34 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/19/15 03:34 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/19/15 03:34 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/19/15 03:34 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/19/15 03:34 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/19/15 03:34 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98           | 70-130          |      | 11/19/15 03:34 |            |
| 4-Bromofluorobenzene (S)  | %     | 106          | 70-130          |      | 11/19/15 03:34 |            |
| Toluene-d8 (S)            | %     | 110          | 70-130          |      | 11/19/15 03:34 |            |

LABORATORY CONTROL SAMPLE: 1609775

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 43.8       | 88        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1020       | 102       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 52.2       | 104       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 55.0       | 110       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 1750       | 87        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 108        | 108       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 45.5       | 91        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 56.6       | 113       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 49.8       | 100       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1000       | 100       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 101        | 101       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 518        | 104       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 421        | 105       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 46.7       | 93        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 136        | 91        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 101       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 96        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| MATRIX SPIKE SAMPLE: 1609776 |       | 92276198026 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,2-Dichloroethane           | ug/L  | ND          | 20    | 20.7   | 103   | 70-130 |            |
| 3,3-Dimethyl-1-Butanol       | ug/L  | ND          | 400   | 442    | 111   | 70-130 |            |
| Benzene                      | ug/L  | ND          | 20    | 21.7   | 109   | 70-130 |            |
| Diisopropyl ether            | ug/L  | ND          | 20    | 19.9   | 99    | 70-130 |            |
| Ethanol                      | ug/L  | ND          | 800   | 1020   | 128   | 70-130 |            |
| Ethyl-tert-butyl ether       | ug/L  | ND          | 40    | 39.8   | 100   | 70-130 |            |
| Ethylbenzene                 | ug/L  | ND          | 20    | 19.3   | 97    | 70-130 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 20    | 21.5   | 108   | 70-130 |            |
| Naphthalene                  | ug/L  | ND          | 20    | 19.6   | 98    | 70-130 |            |
| tert-Amyl Alcohol            | ug/L  | ND          | 400   | 440    | 110   | 70-130 |            |
| tert-Amylmethyl ether        | ug/L  | ND          | 40    | 37.5   | 94    | 70-130 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 200   | 289    | 144   | 70-130 | M1         |
| tert-Butyl Formate           | ug/L  | ND          | 160   | ND     | 0     | 70-130 | P5         |
| Toluene                      | ug/L  | ND          | 20    | 20.0   | 100   | 70-130 |            |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 110   | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 103   | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 99    | 70-130 |            |

SAMPLE DUPLICATE: 1609777

| Parameter                 | Units | 92276198027 | Dup    | RPD | Max | Qualifiers |
|---------------------------|-------|-------------|--------|-----|-----|------------|
|                           |       | Result      | Result |     | RPD |            |
| 1,2-Dichloroethane        | ug/L  | ND          | ND     |     | 30  |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND     |     | 30  |            |
| Benzene                   | ug/L  | ND          | ND     |     | 30  |            |
| Diisopropyl ether         | ug/L  | ND          | ND     |     | 30  |            |
| Ethanol                   | ug/L  | ND          | ND     |     | 30  |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND     |     | 30  |            |
| Ethylbenzene              | ug/L  | ND          | ND     |     | 30  |            |
| Methyl-tert-butyl ether   | ug/L  | ND          | ND     |     | 30  |            |
| Naphthalene               | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amyl Alcohol         | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Alcohol        | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Formate        | ug/L  | ND          | ND     |     | 30  |            |
| Toluene                   | ug/L  | ND          | ND     |     | 30  |            |
| Xylene (Total)            | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloroethane-d4 (S) | %     | 105         | 105    | 0   |     |            |
| 4-Bromofluorobenzene (S)  | %     | 108         | 108    | 1   |     |            |
| Toluene-d8 (S)            | %     | 107         | 106    | 1   |     |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

QC Batch: MSV/34355 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276154007, 92276154014

METHOD BLANK: 1610765 Matrix: Water

Associated Lab Samples: 92276154007, 92276154014

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/19/15 15:42 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/19/15 15:42 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 15:42 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 15:42 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/19/15 15:42 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/19/15 15:42 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/19/15 15:42 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/19/15 15:42 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/19/15 15:42 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/19/15 15:42 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/19/15 15:42 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/19/15 15:42 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/19/15 15:42 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/19/15 15:42 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/19/15 15:42 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 108          | 70-130          |      | 11/19/15 15:42 |            |
| 4-Bromofluorobenzene (S)  | %     | 108          | 70-130          |      | 11/19/15 15:42 |            |
| Toluene-d8 (S)            | %     | 107          | 70-130          |      | 11/19/15 15:42 |            |

LABORATORY CONTROL SAMPLE: 1610766

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 48.0       | 96        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1050       | 105       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 47.9       | 96        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 51.8       | 104       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2030       | 101       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 105        | 105       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 42.8       | 86        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 55.6       | 111       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 46.3       | 93        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1120       | 112       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 100        | 100       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 565        | 113       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 427        | 107       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 44.9       | 90        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 130        | 87        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 110       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 102       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| MATRIX SPIKE SAMPLE: 1610767 |       | 92276198033 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,2-Dichloroethane           | ug/L  | ND          | 20    | 21.9   | 109   | 70-130 |            |
| 3,3-Dimethyl-1-Butanol       | ug/L  | ND          | 400   | 364    | 91    | 70-130 |            |
| Benzene                      | ug/L  | ND          | 20    | 21.2   | 106   | 70-130 |            |
| Diisopropyl ether            | ug/L  | ND          | 20    | 19.6   | 96    | 70-130 |            |
| Ethanol                      | ug/L  | ND          | 800   | 877    | 110   | 70-130 |            |
| Ethyl-tert-butyl ether       | ug/L  | ND          | 40    | 39.7   | 99    | 70-130 |            |
| Ethylbenzene                 | ug/L  | ND          | 20    | 19.1   | 95    | 70-130 |            |
| Methyl-tert-butyl ether      | ug/L  | 7.0         | 20    | 33.6   | 133   | 70-130 | M1         |
| Naphthalene                  | ug/L  | ND          | 20    | 20.0   | 100   | 70-130 |            |
| tert-Amyl Alcohol            | ug/L  | ND          | 400   | 391    | 98    | 70-130 |            |
| tert-Amylmethyl ether        | ug/L  | ND          | 40    | 37.9   | 94    | 70-130 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 200   | 292    | 146   | 70-130 | M1         |
| tert-Butyl Formate           | ug/L  | ND          | 160   | ND     | 2     | 70-130 | P5         |
| Toluene                      | ug/L  | ND          | 20    | 19.8   | 99    | 70-130 |            |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 113   | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 103   | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 98    | 70-130 |            |

SAMPLE DUPLICATE: 1610768

| Parameter                 | Units | 92276198034 | Dup    | RPD | Max | Qualifiers |
|---------------------------|-------|-------------|--------|-----|-----|------------|
|                           |       | Result      | Result |     | RPD |            |
| 1,2-Dichloroethane        | ug/L  | ND          | ND     |     | 30  |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND     |     | 30  |            |
| Benzene                   | ug/L  | ND          | ND     |     | 30  |            |
| Diisopropyl ether         | ug/L  | ND          | ND     |     | 30  |            |
| Ethanol                   | ug/L  | ND          | ND     |     | 30  |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND     |     | 30  |            |
| Ethylbenzene              | ug/L  | ND          | ND     |     | 30  |            |
| Methyl-tert-butyl ether   | ug/L  | ND          | ND     |     | 30  |            |
| Naphthalene               | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amyl Alcohol         | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Alcohol        | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Formate        | ug/L  | ND          | ND     |     | 30  |            |
| Toluene                   | ug/L  | ND          | ND     |     | 30  |            |
| Xylene (Total)            | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloroethane-d4 (S) | %     | 109         | 110    | 1   |     |            |
| 4-Bromofluorobenzene (S)  | %     | 110         | 109    | 1   |     |            |
| Toluene-d8 (S)            | %     | 101         | 100    | 0   |     |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

|                         |  |                       |             |
|-------------------------|--|-----------------------|-------------|
| QC Batch:               | MSV/34357  | Analysis Method:      | EPA 8260    |
| QC Batch Method:        | EPA 8260   | Analysis Description: | 8260 MSV SC |
| Associated Lab Samples: | 92276154018, 92276154019, 92276154020, 92276154021, 92276154022, 92276154023, 92276154024, 92276154025, 92276154026, 92276154027, 92276154028, 92276154029 |                       |             |

|                         |  |         |       |
|-------------------------|--|---------|-------|
| METHOD BLANK:           | 1610784  | Matrix: | Water |
| Associated Lab Samples: | 92276154018, 92276154019, 92276154020, 92276154021, 92276154022, 92276154023, 92276154024, 92276154025, 92276154026, 92276154027, 92276154028, 92276154029 |         |       |

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/20/15 03:54 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/20/15 03:54 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 03:54 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 03:54 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/20/15 03:54 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/20/15 03:54 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/20/15 03:54 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 03:54 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/20/15 03:54 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/20/15 03:54 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/20/15 03:54 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/20/15 03:54 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/20/15 03:54 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/20/15 03:54 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/20/15 03:54 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 113          | 70-130          |      | 11/20/15 03:54 |            |
| 4-Bromofluorobenzene (S)  | %     | 108          | 70-130          |      | 11/20/15 03:54 |            |
| Toluene-d8 (S)            | %     | 106          | 70-130          |      | 11/20/15 03:54 |            |

LABORATORY CONTROL SAMPLE: 1610785

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 50.5       | 101       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 975        | 97        | 70-130       |            |
| Benzene                   | ug/L  | 50          | 47.4       | 95        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 50.4       | 101       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2050       | 103       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 105        | 105       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 42.6       | 85        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 57.1       | 114       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 45.0       | 90        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1080       | 108       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 97.4       | 97        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 562        | 112       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 421        | 105       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 44.4       | 89        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 132        | 88        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 120       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

LABORATORY CONTROL SAMPLE: 1610785

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 101       | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 97        | 70-130       |            |

MATRIX SPIKE SAMPLE: 1610786

| Parameter                 | Units | 92276154020 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20          | 22.3      | 111      | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400         | 427       | 107      | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20          | 21.2      | 106      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20          | 19.1      | 95       | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800         | 1210      | 151      | 70-130       | M1         |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40          | 39.5      | 99       | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20          | 18.9      | 95       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20          | 22.4      | 112      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20          | 19.6      | 98       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400         | 439       | 110      | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40          | 37.2      | 93       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200         | 317       | 158      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20          | 20.0      | 100      | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 120      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 107      | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 99       | 70-130       |            |

SAMPLE DUPLICATE: 1610787

| Parameter                 | Units | 92276154021 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether         | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                   | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene               | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Formate        | ug/L  | ND                 | ND         |     | 30      |            |
| Toluene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Xylene (Total)            | ug/L  | ND                 | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 118                | 120        | 2   |         |            |
| 4-Bromofluorobenzene (S)  | %     | 108                | 107        | 1   |         |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

SAMPLE DUPLICATE: 1610787

| Parameter      | Units | 92276154021<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|----------------|-------|-----------------------|---------------|-----|------------|------------|
| Toluene-d8 (S) | %     | 106                   | 105           | 0   |            |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

QC Batch: OEXT/39086 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276154001, 92276154003, 92276154004, 92276154005, 92276154006, 92276154007, 92276154008, 92276154009

METHOD BLANK: 1607913 Matrix: Water  
Associated Lab Samples: 92276154001, 92276154003, 92276154004, 92276154005, 92276154006, 92276154007, 92276154008, 92276154009

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 11/17/15 07:24 |            |
| 1-Chloro-2-bromopropane (S) | %     | 107          | 60-140          |       | 11/17/15 07:24 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1607914

| Parameter                   | Units | 1607915     |            | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|------------|--------------|-----|---------|------------|
|                             |       | Spike Conc. | LCS Result |           |            |              |     |         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.33       | 116       | 116        | 60-140       | 1   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            | 100       | 102        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607916 1607917

| Parameter                   | Units | 92275935032 Result | MS          |                | MSD             |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|-------------|----------------|-----------------|------------|----------|-----------|--------------|-----|---------|------|
|                             |       |                    | Spike Conc. | MS Spike Conc. | MSD Spike Conc. | MSD Result |          |           |              |     |         |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | 21.0               | .28         | .28            | 39.5            | 36.6       | 6500     | 5480      | 60-140       | 8   | 20      | M1   |
| 1-Chloro-2-bromopropane (S) | %     |                    |             |                |                 |            | 118      | 109       | 60-140       |     |         |      |

SAMPLE DUPLICATE: 1607918

| Parameter                   | Units | 92275935033 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 19.5               | 35.8       | 59  | 20      | D6         |
| 1-Chloro-2-bromopropane (S) | %     | 0                  | 0          |     |         | S4         |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

QC Batch: OEXT/39087 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276154010, 92276154011, 92276154012, 92276154013, 92276154014, 92276154015

METHOD BLANK: 1607940 Matrix: Water  
Associated Lab Samples: 92276154010, 92276154011, 92276154012, 92276154013, 92276154014, 92276154015

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.021           | 0.021 | 11/17/15 16:26 |            |
| 1-Chloro-2-bromopropane (S) | %     | 107          | 60-140          |       | 11/17/15 16:26 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1607941

| Parameter                   | Units | 1607941     |            | 1607942     |           | % Rec Limits | RPD    | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|--------------|--------|---------|------------|
|                             |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec |              |        |         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.31       | 0.36        | 110       | 126          | 60-140 | 15      | 20         |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 99        | 113          | 60-140 |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607943 1607944

| Parameter                   | Units | 92276171001        |                | 1607943         |           | 1607944    |          | % Rec Limits | RPD    | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|------|
|                             |       | 92276171001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec |              |        |         |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | .28            | .28             | 0.33      | 0.33       | 118      | 118          | 60-140 | 0       | 20   |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 107      | 106          | 60-140 |         |      |

SAMPLE DUPLICATE: 1607945

| Parameter                   | Units | 92276171002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 97                 | 99         | 2   |         |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

QC Batch: OEXT/39141 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276154002, 92276154016, 92276154018, 92276154019, 92276154020, 92276154021, 92276154022, 92276154023, 92276154024, 92276154025, 92276154026

METHOD BLANK: 1609488 Matrix: Water  
Associated Lab Samples: 92276154002, 92276154016, 92276154018, 92276154019, 92276154020, 92276154021, 92276154022, 92276154023, 92276154024, 92276154025, 92276154026

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 11/18/15 20:09 |            |
| 1-Chloro-2-bromopropane (S) | %     | 115          | 60-140          |       | 11/18/15 20:09 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1609489 1609490

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .29         | 0.31       | 0.32        | 108       | 112        | 60-140       | 2   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 103       | 102        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1609491 1609492

| Parameter                   | Units | 92276154018 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | .28            | .28             | 0.30      | 0.30       | 108      | 108       | 60-140       | 0   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 100      | 101       | 60-140       |     |         |      |

SAMPLE DUPLICATE: 1609493

| Parameter                   | Units | 92276154019 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 102                | 103        | 2   |         |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

QC Batch: OEXT/39173 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276154027, 92276154028, 92276154029

METHOD BLANK: 1610649 Matrix: Water  
Associated Lab Samples: 92276154027, 92276154028, 92276154029

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.019           | 0.019 | 11/19/15 23:48 |            |
| 1-Chloro-2-bromopropane (S) | %     | 95           | 60-140          |       | 11/19/15 23:48 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1610650

| Parameter                   | Units | 1610650     |            | 1610651     |           | % Rec Limits | RPD    | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|--------------|--------|---------|------------|
|                             |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec |              |        |         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.30       | 0.28        | 106       | 102          | 60-140 | 6       | 20         |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 95        | 98           | 60-140 |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1610652 1610653

| Parameter                   | Units | 92276154027        |                | 1610652         |           | 1610653    |          | % Rec Limits | RPD    | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|------|
|                             |       | 92276154027 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec |              |        |         |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | .28            | .28             | 0.30      | 0.29       | 108      | 106          | 60-140 | 2       | 20   |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 100      | 99           | 60-140 |         |      |

SAMPLE DUPLICATE: 1610654

| Parameter                   | Units | 92276154029 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 101                | 103        | 3   |         |            |

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 378 TRUCK STOP 14-214210

Pace Project No.: 92276154

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| Lab ID      | Sample ID           | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|------------|-------------------|------------------|
| 92276154001 | 07960-WSW11         | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154002 | 07960-WSW12         | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154003 | 07960-WSW13         | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154004 | 07960-WSW14         | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154005 | 07960-WSW15         | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154006 | 07960-MW11          | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154007 | 07960-MW12          | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154008 | 07960-MW13          | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154009 | 07960-MW14          | EPA 8011        | OEXT/39086 | EPA 8011          | GCSV/23231       |
| 92276154010 | 07960-MW15          | EPA 8011        | OEXT/39087 | EPA 8011          | GCSV/23230       |
| 92276154011 | 07960-MW18          | EPA 8011        | OEXT/39087 | EPA 8011          | GCSV/23230       |
| 92276154012 | 07960-MW22          | EPA 8011        | OEXT/39087 | EPA 8011          | GCSV/23230       |
| 92276154013 | 07960-MW28          | EPA 8011        | OEXT/39087 | EPA 8011          | GCSV/23230       |
| 92276154014 | 07960-MW30          | EPA 8011        | OEXT/39087 | EPA 8011          | GCSV/23230       |
| 92276154015 | 07960-TW5           | EPA 8011        | OEXT/39087 | EPA 8011          | GCSV/23230       |
| 92276154016 | 07960-DUP2          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154018 | 07960-WSW1 PREGAC   | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154019 | 07960-WSW1 POST GAC | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154020 | 07960-WSW2          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154021 | 07960-WSW3          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154022 | 07960-WSW4          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154023 | 07960-WSW5          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154024 | 07960-WSW6          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154025 | 07960-WSW7          | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154026 | 07960-WSW8 PRE GAC  | EPA 8011        | OEXT/39141 | EPA 8011          | GCSV/23260       |
| 92276154027 | 07960-WSW8 POST GAC | EPA 8011        | OEXT/39173 | EPA 8011          | GCSV/23271       |
| 92276154028 | 07960-WSW9          | EPA 8011        | OEXT/39173 | EPA 8011          | GCSV/23271       |
| 92276154029 | 07960-WSW10         | EPA 8011        | OEXT/39173 | EPA 8011          | GCSV/23271       |
| 92276154001 | 07960-WSW11         | EPA 8260        | MSV/34325  |                   |                  |
| 92276154002 | 07960-WSW12         | EPA 8260        | MSV/34325  |                   |                  |
| 92276154003 | 07960-WSW13         | EPA 8260        | MSV/34325  |                   |                  |
| 92276154004 | 07960-WSW14         | EPA 8260        | MSV/34326  |                   |                  |
| 92276154005 | 07960-WSW15         | EPA 8260        | MSV/34326  |                   |                  |
| 92276154006 | 07960-MW11          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154007 | 07960-MW12          | EPA 8260        | MSV/34355  |                   |                  |
| 92276154008 | 07960-MW13          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154009 | 07960-MW14          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154010 | 07960-MW15          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154011 | 07960-MW18          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154012 | 07960-MW22          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154013 | 07960-MW28          | EPA 8260        | MSV/34326  |                   |                  |
| 92276154014 | 07960-MW30          | EPA 8260        | MSV/34355  |                   |                  |
| 92276154015 | 07960-TW5           | EPA 8260        | MSV/34327  |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 14-214210  
Pace Project No.: 92276154

| Lab ID      | Sample ID           | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|-----------|-------------------|------------------|
| 92276154016 | 07960-DUP2          | EPA 8260        | MSV/34341 |                   |                  |
| 92276154017 | TRIP BLANK          | EPA 8260        | MSV/34327 |                   |                  |
| 92276154018 | 07960-WSW1 PREGAC   | EPA 8260        | MSV/34357 |                   |                  |
| 92276154019 | 07960-WSW1 POST GAC | EPA 8260        | MSV/34357 |                   |                  |
| 92276154020 | 07960-WSW2          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154021 | 07960-WSW3          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154022 | 07960-WSW4          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154023 | 07960-WSW5          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154024 | 07960-WSW6          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154025 | 07960-WSW7          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154026 | 07960-WSW8 PRE GAC  | EPA 8260        | MSV/34357 |                   |                  |
| 92276154027 | 07960-WSW8 POST GAC | EPA 8260        | MSV/34357 |                   |                  |
| 92276154028 | 07960-WSW9          | EPA 8260        | MSV/34357 |                   |                  |
| 92276154029 | 07960-WSW10         | EPA 8260        | MSV/34357 |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Number:  
**F-CHR-CS-003-rev.16**

Document Revised: May 10, 2010

Page 1 of 2\*

Issuing Authority:

Pace Huntersville Quality Office

Client Name: FCS

\* Page 2 of 2 is for Internal Use Only

Courier:  Fed Ex  UP  USP  Clier  Commercial  Pace  Other \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun T1402 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor **T1402** No Correction

Corrected Cooler Temp.: 3.2 °C

Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: AP (11/13/16)

Temp should be above freezing to 6°C

Comments:

|  |  |     |
|--|--|-----|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 3.  |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.  |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.  |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.  |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.  |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.  |
| -Pace Containers Used:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |     |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix:  |  |     |
| All containers needing preservation have been checked.                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |     |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |     |
| Samples checked for dechlorination:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 14. |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 16. |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |     |
| Pace Trip Blank Lot # (if purchased):  |  |     |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

|               |  |       |              |
|---------------|--|-------|--------------|
| SCURF Review: |  | Date: | <u>11/13</u> |
| SRF Review:   |  | Date: | <u>11/16</u> |

WO#: **92276154**



Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: Company: ES Report To: Doree France **Section B** Required Project Information: Invoice Information: Attention: Accounting Company Name: ES **Section C** Regulatory Agency:  NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER SC Page: 1 of 3 1998913 Page 57 of 59

Address: 15504 South Point Blvd Copy To: Doree France Address: Agawam, Ma **REGULATORY AGENCY**  NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER SC Email To: Wfrance@esconsult.com Purchase Order No.: 14-214210 Pace Quote: Agawam, Ma Reference: ES Requested Date/Time: 5:00pm Project Name: 378 Truck Stop Pace Project Manager: Taylor Szell Pace Profile #: ES Site Location STATE: SC Requested Duplicates: 5-Dup Project Number: 14-214210

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | COLLECTED      |    |       |             | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |      |      |      |             |                                |                  |     | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |      |   |
|--------|--|-------------------------------|----------------|----|-------|-------------|---------------------------|-----------------|---------------|------|------|------|-------------|--------------------------------|------------------|-----|-----------------------------------|-------------------------|----------------------------|------|---|
|        |  |                               | Drinking Water | WT | Water | Waste Water |                           |                 | DATE          | TIME | DATE | TIME | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl |                                   |                         |                            | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |
| 1      | <b>SAMPLE ID</b><br>(A-Z, 0-9 / -)       |                               |                |    |       |             |                           |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 92276154                                      |
| 2      | 07960-105W1 Pre GAC                      | DW G                          |                |    |       | 4/10        | 1053                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 018   |
| 3      | 07960-105W1 Post GAC                     | F                             |                |    |       | 4/10        | 1120                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 019   |
| 4      | 07960-105W2                              | F                             |                |    |       | 4/10        | 1230                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 020   |
| 5      | 07960-105W3                              | F                             |                |    |       | 4/10        | 1205                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 021   |
| 6      | 07960-105W4                              | F                             |                |    |       | 4/10        | 1150                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 022   |
| 7      | 07960-105W5                              | F                             |                |    |       | 4/10        | 1115                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 023   |
| 8      | 07960-105W6                              | F                             |                |    |       | 4/10        | 1135                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 024   |
| 9      | 07960-105W7                              | F                             |                |    |       | 4/10        | 1330                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 025   |
| 10     | 07960-105W8 Pre GAC                      | F                             |                |    |       | 4/10        | 1350                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 026   |
| 11     | 07960-105W8 Post GAC                     | F                             |                |    |       | 4/10        | 1405                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 027   |
| 12     | 07960-105W9                              | F                             |                |    |       | 4/10        | 1420                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 028   |
|        | 07960-105W10                             | F                             |                |    |       | 4/10        | 1440                      |                 |               |      |      |      |             |                                |                  |     |                                   |                         |                            |      | 029   |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
|                     | KLINGWIT / ES                 | 4/12/15 | 1830 | ES Office                 | 4/12/15 | 1830 |                   |
|                     |                               | 4/13/15 | 1715 |                           | 4/13/15 | 1715 |                   |
|                     |                               | 4/13/15 | 1500 |                           | 4/13/15 | 1500 |                   |

REPORT J values

Temp in °C: 3.2

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Keyey Wray DATE Signed (MM/DD/YY): 4/12/15

SIGNATURE of SAMPLER: [Signature]

**ORIGINAL**

F-ALL-Q-020(rev.07, 15-May-2007)

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **ECS** Address: **13504 South Point Blvd Charlotte, NC 28273** Email: **France@ecslabs.com** Phone: **704-583-2211** Fax: **704-583-2211** Requested Date/Time: **Standard 5 Day**

Section B Required Project Information: Report To: **Doell France** Copy To: **Doell France** Purchase Order No.: **14-214210** Project Name: **378 Truck Stop** Project Number: **14-214210**

Section C Invoice Information: Attention: **Accounting** Company Name: **ECS** Address: **Argosian, WA** Reference: **Taylor - Bell** Pace Project Manager: **2015-3** Pace Profile #: **2015-3**

REGULATORY AGENCY:  NPDES  GROUND WATER  DRINKING WATER  **JUST**  RCRA  OTHER

Site Location STATE: **SC**

Requested Analysis Filtered (Y/N)

| ITEM # | Section D Required Client Information | Matrix Codes MATRIX / CODE | Matrix Code (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED       |                    | DATE | TIME | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives                  |                  |     |      |   |          | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|---------------------------------------|----------------------------|---------------------------------------|-----------------------------|-----------------|--------------------|------|------|------|------|---------------------------|-----------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----------------------------------|-------------------------|----------------------------|
|        |                                       |                            |                                       |                             | COMPOSITE START | COMPOSITE END/GRAB |      |      |      |      |                           |                 | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol |               |                                   |                         |                            |
| 1      | 07960-MSW11                           | Drinking Water             | DW                                    | WT                          |                 | 4/10               | 1520 |      |      |      |                           | 6               |                                |                  |     |      |   |          |               |                                   |                         | 92276154                   |
| 2      | 07960-MSW12                           | Water                      | WT                                    |                             |                 | 4/10               | 1515 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 001                        |
| 3      | 07960-MSW13                           | Waste Water                | WW                                    |                             |                 | 4/10               | 1535 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 002                        |
| 4      | 07960-MSW14                           | Product                    | P                                     |                             |                 | 4/10               | 1550 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 003                        |
| 5      | 07960-MSW15                           | Oil                        | OL                                    |                             |                 | 4/10               | 1610 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 004                        |
| 6      | 07960-MSW16                           | Soil/Solid                 | SL                                    |                             |                 | 4/11               | 1428 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 005                        |
| 7      | 07960-MSW12                           | Oil                        | OL                                    |                             |                 | 4/11               | 1205 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 006                        |
| 8      | 07960-MSW13                           | Oil                        | OL                                    |                             |                 | 4/11               | 1025 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 007                        |
| 9      | 07960-MSW14                           | Oil                        | OL                                    |                             |                 | 4/11               | 1347 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 008                        |
| 10     | 07960-MSW15                           | Oil                        | OL                                    |                             |                 | 4/11               | 0920 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 009                        |
| 11     | 07960-MSW15                           | Oil                        | OL                                    |                             |                 | 4/11               | 1710 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 010                        |
| 12     | 07960-MSW12                           | Oil                        | OL                                    |                             |                 | 4/11               | 1545 |      |      |      |                           |                 |                                |                  |     |      |   |          |               |                                   |                         | 011                        |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| Report 5 values     | Kunigui ECS                   | 4/12/15 | 1830 | ECS Office                | 4/12/15 | 1830 |                   |
|                     | Madeline                      | 4/12/15 | 1215 | Madeline                  | 4/12/15 | 1215 |                   |
|                     | Madeline                      | 4/12/15 | 1500 | Madeline                  | 4/12/15 | 1500 |                   |

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

ORIGINAL

DATE Signed (MM/DD/YY): **4/12/15**

PRINT Name of SAMPLER: **Kevin W. Taylor**

SIGNATURE of SAMPLER: **[Signature]**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: **ECS**  
Address: **3504 South Point Blvd Charlotte, SC 28273**  
Phone: **704-583-2711** Fax: \_\_\_\_\_  
Requested Date/Time: **5-day**

**Section B**  
Required Project Information:

Report To: **Nicole France**  
Copy To: \_\_\_\_\_  
Purchase Order No.: **14-214210**  
Project Name: **578 Truck Stop**  
Project Number: **14-214210**

**Section C**  
Invoice Information:

Attention: **Accounting**  
Company Name: **ECS**  
Address: **Regissem, WA**  
Page Quote Reference: \_\_\_\_\_  
Page Project Manager: **Taylor Steel**  
Page Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
NPDES  GROUND WATER  DRINKING WATER   
UST  RCRA  OTHER \_\_\_\_\_  
Site Location: **SC**  
STATE: \_\_\_\_\_

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |      |                                |                  |     |      |   | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |          |       |
|--------|--|-------------------------------|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|------|--------------------------------|------------------|-----|------|---|-----------------------------------|-------------------------|----------|-------|
|        |  |                               |                                       |                             | DATE      | TIME |                           |                 | DATE          | TIME | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |                                   |                         | Methanol | Other |
| 1      | 07960-WW28                               | WT G                          | WT G                                  | G                           | 11/10     | 1718 | 6                         | X               |               |      |                                |                  |     |      |   |                                   | X                       |          | 013   |
| 2      | 07960-WW30                               | WT G                          | WT G                                  | G                           | 11/11     | 1257 | 6                         | X               |               |      |                                |                  |     |      |   |                                   | X                       |          | 014   |
| 3      | 07960-WW35                               | WT G                          | WT G                                  | G                           | 11/11     | 1125 | 6                         | X               |               |      |                                |                  |     |      |   |                                   | X                       |          | 015   |
| 4      | 07960-DUP 2                              | WT G                          | WT G                                  | G                           | 11/11     | ---  | 6                         | X               |               |      |                                |                  |     |      |   |                                   | X                       |          | 016   |
| 5      | Trip blank                               | WT G                          | WT G                                  | G                           | ---       | ---  | 2                         | X               |               |      |                                |                  |     |      |   |                                   | X                       |          | 017   |
| 6      |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |
| 7      |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |
| 8      |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |
| 9      |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |
| 10     |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |
| 11     |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |
| 12     |  |                               |                                       |                             |           |      |                           |                 |               |      |                                |                  |     |      |   |                                   |                         |          |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE     | TIME | ACCEPTED BY / AFFILIATION | DATE     | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|----------|------|-------------------|
| Report J values     | King W / ECS                  | 11/21/15 | 1830 | ECS Office                | 11/21/15 | 1830 |                   |
|                     | W. DeMott                     | 11/21/15 | 1215 | W. DeMott                 | 11/21/15 | 1215 |                   |
|                     | W. DeMott                     | 11/21/15 | 1500 | W. DeMott                 | 11/21/15 | 1500 |                   |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: \_\_\_\_\_  
SIGNATURE of SAMPLER: *[Signature]*  
DATE Signed (MM/DD/YY): *11/21/15*

Temp in °C \_\_\_\_\_  
Received on Ice (Y/N) \_\_\_\_\_  
Custody Sealed Cooler (Y/N) \_\_\_\_\_  
Samples Intact (Y/N) \_\_\_\_\_

ORIGINAL

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

November 23, 2015

Noelle France  
Environmental Compliance Services  
13504 South Point Blvd.  
Unit F  
Charlotte, NC 28273

RE: Project: 378 Truck Stop  
Pace Project No.: 92276240

Dear Noelle France:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor Ezell  
taylor.ezell@pacelabs.com  
Project Manager

Enclosures

cc: Aaron Williamson, Environmental Compliance Services



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 378 Truck Stop  
Pace Project No.: 92276240

---

### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Lab ID      | Sample ID    | Matrix | Date Collected | Date Received  |
|-------------|--------------|--------|----------------|----------------|
| 92276240001 | 07960 - TW2  | Water  | 11/09/15 15:13 | 11/16/15 08:28 |
| 92276240002 | 07960 - TW3  | Water  | 11/09/15 14:25 | 11/16/15 08:28 |
| 92276240003 | 07960 - TW9  | Water  | 11/09/15 17:03 | 11/16/15 08:28 |
| 92276240004 | 07960 - FB1  | Water  | 11/09/15 17:40 | 11/16/15 08:28 |
| 92276240005 | 07960 - MW16 | Water  | 11/10/15 14:30 | 11/16/15 08:28 |
| 92276240006 | 07960 - MW17 | Water  | 11/10/15 09:10 | 11/16/15 08:28 |
| 92276240007 | 07960 - MW19 | Water  | 11/10/15 12:25 | 11/16/15 08:28 |
| 92276240008 | 07960 - MW23 | Water  | 11/10/15 10:55 | 11/16/15 08:28 |
| 92276240009 | 07960 - MW25 | Water  | 11/10/15 13:25 | 11/16/15 08:28 |
| 92276240010 | 07960 - MW31 | Water  | 11/10/15 13:50 | 11/16/15 08:28 |
| 92276240011 | 07960 - TW7  | Water  | 11/10/15 08:20 | 11/16/15 08:28 |
| 92276240012 | 07960 - TW8  | Water  | 11/10/15 11:39 | 11/16/15 08:28 |
| 92276240013 | 07960 - DUP1 | Water  | 11/10/15 00:00 | 11/16/15 08:28 |
| 92276240014 | 07960 - MW24 | Water  | 11/10/15 16:10 | 11/16/15 08:28 |
| 92276240015 | 07960 - MW26 | Water  | 11/10/15 15:40 | 11/16/15 08:28 |
| 92276240016 | 07960 - TW6  | Water  | 11/10/15 15:10 | 11/16/15 08:28 |
| 92276240017 | 07960 - FB2  | Water  | 11/10/15 16:10 | 11/16/15 08:28 |
| 92276240018 | 07960 - MW2  | Water  | 11/11/15 16:13 | 11/16/15 08:28 |
| 92276240019 | 07960 - MW4  | Water  | 11/11/15 14:48 | 11/16/15 08:28 |
| 92276240020 | 07960 - MW5  | Water  | 11/11/15 13:05 | 11/16/15 08:28 |
| 92276240021 | 07960 - MW6  | Water  | 11/11/15 11:50 | 11/16/15 08:28 |
| 92276240022 | 07960 - MW8  | Water  | 11/11/15 13:59 | 11/16/15 08:28 |
| 92276240023 | 07960 - MW9  | Water  | 11/11/15 07:40 | 11/16/15 08:28 |
| 92276240024 | 07960 - MW10 | Water  | 11/11/15 08:13 | 11/16/15 08:28 |
| 92276240025 | 07960 - MW20 | Water  | 11/11/15 12:35 | 11/16/15 08:28 |
| 92276240026 | 07960 - MW21 | Water  | 11/11/15 11:09 | 11/16/15 08:28 |
| 92276240027 | 07960 - MW27 | Water  | 11/11/15 10:40 | 11/16/15 08:28 |
| 92276240028 | 07960 - MW29 | Water  | 11/11/15 16:56 | 11/16/15 08:28 |
| 92276240029 | 07960 - TW4  | Water  | 11/11/15 09:45 | 11/16/15 08:28 |
| 92276240030 | 07960 - FB3  | Water  | 11/11/15 17:15 | 11/16/15 08:28 |
| 92276240031 | 07960 - RW1  | Water  | 11/12/15 09:20 | 11/16/15 08:28 |
| 92276240032 | 07960 - MW1  | Water  | 11/12/15 10:00 | 11/16/15 08:28 |
| 92276240033 | 07960 - TW1  | Water  | 11/12/15 11:15 | 11/16/15 08:28 |
| 92276240034 | 07960 - MW3  | Water  | 11/12/15 08:15 | 11/16/15 08:28 |
| 92276240035 | 07960 - MW7  | Water  | 11/12/15 07:35 | 11/16/15 08:28 |
| 92276240036 | 07960 - DUP3 | Water  | 11/13/15 00:00 | 11/16/15 08:28 |
| 92276240037 | 07960 - FB4  | Water  | 11/13/15 11:20 | 11/16/15 08:28 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 378 Truck Stop  
Pace Project No.: 92276240

---

| Lab ID      | Sample ID  | Matrix | Date Collected | Date Received  |
|-------------|------------|--------|----------------|----------------|
| 92276240038 | TRIP BLANK | Water  | 11/13/15 00:00 | 11/16/15 08:28 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Lab ID      | Sample ID    | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|----------|----------|-------------------|------------|
| 92276240001 | 07960 - TW2  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240002 | 07960 - TW3  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240003 | 07960 - TW9  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240004 | 07960 - FB1  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240005 | 07960 - MW16 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240006 | 07960 - MW17 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240007 | 07960 - MW19 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240008 | 07960 - MW23 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240009 | 07960 - MW25 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240010 | 07960 - MW31 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240011 | 07960 - TW7  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240012 | 07960 - TW8  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240013 | 07960 - DUP1 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240014 | 07960 - MW24 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240015 | 07960 - MW26 | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240016 | 07960 - TW6  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240017 | 07960 - FB2  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240018 | 07960 - MW2  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |              | EPA 8260 | CCL      | 18                | PASI-C     |
| 92276240019 | 07960 - MW4  | EPA 8011 | HSK      | 2                 | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Lab ID      | Sample ID    | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|----------|----------|-------------------|------------|
| 92276240020 | 07960 - MW5  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240021 | 07960 - MW6  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240022 | 07960 - MW8  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240023 | 07960 - MW9  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240024 | 07960 - MW10 | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240025 | 07960 - MW20 | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240026 | 07960 - MW21 | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240027 | 07960 - MW27 | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240028 | 07960 - MW29 | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240029 | 07960 - TW4  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240030 | 07960 - FB3  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240031 | 07960 - RW1  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240032 | 07960 - MW1  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK, RES | 2                 | PASI-C     |
| 92276240033 | 07960 - TW1  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240034 | 07960 - MW3  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240035 | 07960 - MW7  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | RES      | 2                 | PASI-C     |
| 92276240036 | 07960 - DUP3 | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |
| 92276240037 | 07960 - FB4  | EPA 8260 | CCL      | 18                | PASI-C     |
|             |              | EPA 8011 | HSK      | 2                 | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 378 Truck Stop  
Pace Project No.: 92276240

---

| Lab ID      | Sample ID  | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|------------|----------|----------|-------------------|------------|
| 92276240038 | TRIP BLANK | EPA 8260 | CCL      | 18                | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW2          |         | Lab ID: 92276240001                                      |              | Collected: 11/09/15 15:13 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1  | 11/18/15 20:17           | 11/19/15 08:46 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 98      | %  | 60-140       |                           | 1  | 11/18/15 20:17           | 11/19/15 08:46 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | 109     | ug/L   | 100          | 76.8                      | 1  |                          | 11/20/15 10:26 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1  |                          | 11/20/15 10:26 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/20/15 10:26 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1  |                          | 11/20/15 10:26 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1  |                          | 11/20/15 10:26 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1  |                          | 11/20/15 10:26 | 762-75-4      |      |
| 1,2-Dichloroethane           | 5.0J    | ug/L   | 5.0          | 1.8                       | 1  |                          | 11/20/15 10:26 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/20/15 10:26 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1  |                          | 11/20/15 10:26 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/20/15 10:26 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1  |                          | 11/20/15 10:26 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/20/15 10:26 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 11/20/15 10:26 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/20/15 10:26 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 11/20/15 10:26 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 114     | %  | 70-130       |                           | 1  |                          | 11/20/15 10:26 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 126     | %  | 70-130       |                           | 1  |                          | 11/20/15 10:26 | 17060-07-0    |      |
| Toluene-d8 (S)               | 106     | %  | 70-130       |                           | 1  |                          | 11/20/15 10:26 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW3          |         | Lab ID: 92276240002         |              | Collected: 11/09/15 14:25    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:17 | 11/19/15 09:06 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 98      | %                           | 60-140       |                              | 1                        | 11/18/15 20:17 | 11/19/15 09:06 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/20/15 10:43 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/20/15 10:43 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 10:43 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/20/15 10:43 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/20/15 10:43 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/20/15 10:43 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/20/15 10:43 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 10:43 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/20/15 10:43 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 10:43 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/20/15 10:43 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 10:43 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/20/15 10:43 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 10:43 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/20/15 10:43 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 116     | %                           | 70-130       |                              | 1                        |                | 11/20/15 10:43 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 124     | %                           | 70-130       |                              | 1                        |                | 11/20/15 10:43 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 106     | %                           | 70-130       |                              | 1                        |                | 11/20/15 10:43 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW9          |         | Lab ID: 92276240003                                      |                 | Collected: 11/09/15 17:03 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|-----------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report<br>Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                 |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019           | 0.019                     | 1  | 11/18/15 20:18           | 11/19/15 09:26 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |                 |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 92      | %  | 60-140          |                           | 1  | 11/18/15 20:18           | 11/19/15 09:26 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |                 |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100             | 76.8                      | 1  |                          | 11/20/15 11:00 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0            | 3.4                       | 1  |                          | 11/20/15 11:00 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0             | 1.7                       | 1  |                          | 11/20/15 11:00 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100             | 32.1                      | 1  |                          | 11/20/15 11:00 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100             | 57.7                      | 1  |                          | 11/20/15 11:00 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0            | 7.3                       | 1  |                          | 11/20/15 11:00 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0             | 1.8                       | 1  |                          | 11/20/15 11:00 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0             | 1.7                       | 1  |                          | 11/20/15 11:00 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200             | 138                       | 1  |                          | 11/20/15 11:00 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0             | 1.6                       | 1  |                          | 11/20/15 11:00 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0            | 3.6                       | 1  |                          | 11/20/15 11:00 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0             | 1.7                       | 1  |                          | 11/20/15 11:00 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0             | 2.0                       | 1  |                          | 11/20/15 11:00 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0             | 1.6                       | 1  |                          | 11/20/15 11:00 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0            | 2.7                       | 1  |                          | 11/20/15 11:00 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |                 |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 111     | %  | 70-130          |                           | 1  |                          | 11/20/15 11:00 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 125     | %  | 70-130          |                           | 1  |                          | 11/20/15 11:00 | 17060-07-0    |      |
| Toluene-d8 (S)               | 106     | %  | 70-130          |                           | 1  |                          | 11/20/15 11:00 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - FB1      Lab ID: 92276240004      Collected: 11/09/15 17:40      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:18 | 11/19/15 09:46 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 101     | %     | 60-140       |       | 1  | 11/18/15 20:18 | 11/19/15 09:46 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 05:02 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 05:02 | 994-05-8   |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 05:02 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 05:02 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 05:02 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 05:02 | 762-75-4   |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 05:02 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 05:02 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 05:02 | 64-17-5    |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 05:02 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 05:02 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 05:02 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 05:02 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 05:02 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 05:02 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 108     | %     | 70-130       |       | 1  |                | 11/20/15 05:02 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 117     | %     | 70-130       |       | 1  |                | 11/20/15 05:02 | 17060-07-0 |      |
| Toluene-d8 (S)   | 108     | %     | 70-130       |       | 1  |                | 11/20/15 05:02 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW16         |         | Lab ID: 92276240005                                      |              | Collected: 11/10/15 14:30 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1  | 11/18/15 20:18           | 11/19/15 10:06 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 104     | %  | 60-140       |                           | 1  | 11/18/15 20:18           | 11/19/15 10:06 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | 202     | ug/L   | 100          | 76.8                      | 1  |                          | 11/22/15 04:27 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1  |                          | 11/22/15 04:27 | 994-05-8      |      |
| Benzene                      | 18.8    | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/22/15 04:27 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1  |                          | 11/22/15 04:27 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1  |                          | 11/22/15 04:27 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1  |                          | 11/22/15 04:27 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 11/22/15 04:27 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/22/15 04:27 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1  |                          | 11/22/15 04:27 | 64-17-5       |      |
| Ethylbenzene                 | 1.8J    | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/22/15 04:27 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1  |                          | 11/22/15 04:27 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/22/15 04:27 | 1634-04-4     |      |
| Naphthalene                  | 41.2    | ug/L   | 5.0          | 2.0                       | 1  |                          | 11/22/15 04:27 | 91-20-3       |      |
| Toluene                      | 2.7J    | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/22/15 04:27 | 108-88-3      |      |
| Xylene (Total)               | 104     | ug/L   | 10.0         | 2.7                       | 1  |                          | 11/22/15 04:27 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 100     | %  | 70-130       |                           | 1  |                          | 11/22/15 04:27 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 106     | %  | 70-130       |                           | 1  |                          | 11/22/15 04:27 | 17060-07-0    |      |
| Toluene-d8 (S)               | 106     | %  | 70-130       |                           | 1  |                          | 11/22/15 04:27 | 2037-26-5     |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW17      Lab ID: 92276240006      Collected: 11/10/15 09:10      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:18 | 11/19/15 10:26 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 71      | %     | 60-140       |       | 1  | 11/18/15 20:18 | 11/19/15 10:26 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 11:18 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 11:18 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 11:18 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 11:18 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 11:18 | 75-65-0    | M1   |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 11:18 | 762-75-4   | P5   |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 11:18 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 11:18 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 11:18 | 64-17-5    | M1   |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 11:18 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 11:18 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 11:18 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 11:18 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 11:18 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 11:18 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 109     | %     | 70-130       |       | 1  |                | 11/20/15 11:18 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 121     | %     | 70-130       |       | 1  |                | 11/20/15 11:18 | 17060-07-0 |      |
| Toluene-d8 (S)  | 109     | %     | 70-130       |       | 1  |                | 11/20/15 11:18 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW19         |         | Lab ID: 92276240007         |              | Collected: 11/10/15 12:25    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/22/15 12:47 | 11/23/15 13:55 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 104     | %                           | 60-140       |                              | 1                        | 11/22/15 12:47 | 11/23/15 13:55 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/20/15 11:35 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/20/15 11:35 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 11:35 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/20/15 11:35 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/20/15 11:35 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/20/15 11:35 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/20/15 11:35 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 11:35 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/20/15 11:35 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 11:35 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/20/15 11:35 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 11:35 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/20/15 11:35 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 11:35 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/20/15 11:35 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 112     | %                           | 70-130       |                              | 1                        |                | 11/20/15 11:35 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 123     | %                           | 70-130       |                              | 1                        |                | 11/20/15 11:35 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 110     | %                           | 70-130       |                              | 1                        |                | 11/20/15 11:35 | 2037-26-5  |      |  |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW23      Lab ID: 92276240008      Collected: 11/10/15 10:55      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/18/15 20:18 | 11/19/15 11:06 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 86      | %     | 60-140       |       | 1  | 11/18/15 20:18 | 11/19/15 11:06 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/20/15 12:09 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/20/15 12:09 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 12:09 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/20/15 12:09 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/20/15 12:09 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/20/15 12:09 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/20/15 12:09 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 12:09 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/20/15 12:09 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 12:09 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/20/15 12:09 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/20/15 12:09 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/20/15 12:09 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/20/15 12:09 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/20/15 12:09 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 114     | %     | 70-130       |       | 1  |                | 11/20/15 12:09 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 125     | %     | 70-130       |       | 1  |                | 11/20/15 12:09 | 17060-07-0 |      |
| Toluene-d8 (S)  | 106     | %     | 70-130       |       | 1  |                | 11/20/15 12:09 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW25         |         | Lab ID: 92276240009         |              | Collected: 11/10/15 13:25    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.020        | 0.020                        | 1                        | 11/18/15 20:18 | 11/19/15 11:26 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 91      | %                           | 60-140       |                              | 1                        | 11/18/15 20:18 | 11/19/15 11:26 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/20/15 12:26 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/20/15 12:26 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 12:26 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/20/15 12:26 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/20/15 12:26 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/20/15 12:26 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/20/15 12:26 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 12:26 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/20/15 12:26 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 12:26 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/20/15 12:26 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/20/15 12:26 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/20/15 12:26 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/20/15 12:26 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/20/15 12:26 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 114     | %                           | 70-130       |                              | 1                        |                | 11/20/15 12:26 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 126     | %                           | 70-130       |                              | 1                        |                | 11/20/15 12:26 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 107     | %                           | 70-130       |                              | 1                        |                | 11/20/15 12:26 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW31         |              | Lab ID: 92276240010                                      |              | Collected: 11/10/15 13:50 |     | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|--------------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters                   | Results      | Units  | Report Limit | MDL                       | DF  | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |              | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |     |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND           | ug/L   | 0.019        | 0.019                     | 1   | 11/18/15 20:18           | 11/19/15 11:46 | 106-93-4      |      |
| <b>Surrogates</b>            |              |  |              |                           |     |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 90           | %  | 60-140       |                           | 1   | 11/18/15 20:18           | 11/19/15 11:46 | 301-79-56     |      |
| <b>8260 MSV</b>              |              | Analytical Method: EPA 8260                              |              |                           |     |                          |                |               |      |
| tert-Amyl Alcohol            | <b>827</b>   | ug/L   | 250          | 192                       | 2.5 |                          | 11/21/15 20:13 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND           | ug/L   | 25.0         | 8.5                       | 2.5 |                          | 11/21/15 20:13 | 994-05-8      |      |
| Benzene                      | <b>200</b>   | ug/L   | 12.5         | 4.2                       | 2.5 |                          | 11/21/15 20:13 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND           | ug/L   | 250          | 80.2                      | 2.5 |                          | 11/21/15 20:13 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND           | ug/L   | 250          | 144                       | 2.5 |                          | 11/21/15 20:13 | 75-65-0       |      |
| tert-Butyl Formate           | ND           | ug/L   | 125          | 18.2                      | 2.5 |                          | 11/21/15 20:13 | 762-75-4      |      |
| 1,2-Dichloroethane           | <b>40.3</b>  | ug/L   | 12.5         | 4.5                       | 2.5 |                          | 11/21/15 20:13 | 107-06-2      |      |
| Diisopropyl ether            | ND           | ug/L   | 12.5         | 4.2                       | 2.5 |                          | 11/21/15 20:13 | 108-20-3      |      |
| Ethanol                      | ND           | ug/L   | 500          | 344                       | 2.5 |                          | 11/21/15 20:13 | 64-17-5       |      |
| Ethylbenzene                 | <b>35.6</b>  | ug/L   | 12.5         | 4.0                       | 2.5 |                          | 11/21/15 20:13 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND           | ug/L   | 25.0         | 9.0                       | 2.5 |                          | 11/21/15 20:13 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND           | ug/L   | 12.5         | 4.2                       | 2.5 |                          | 11/21/15 20:13 | 1634-04-4     |      |
| Naphthalene                  | <b>56.6</b>  | ug/L   | 12.5         | 5.0                       | 2.5 |                          | 11/21/15 20:13 | 91-20-3       |      |
| Toluene                      | <b>10.0J</b> | ug/L   | 12.5         | 4.0                       | 2.5 |                          | 11/21/15 20:13 | 108-88-3      |      |
| Xylene (Total)               | <b>27.4</b>  | ug/L   | 25.0         | 6.8                       | 2.5 |                          | 11/21/15 20:13 | 1330-20-7     |      |
| <b>Surrogates</b>            |              |  |              |                           |     |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 100          | %  | 70-130       |                           | 2.5 |                          | 11/21/15 20:13 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 110          | %  | 70-130       |                           | 2.5 |                          | 11/21/15 20:13 | 17060-07-0    |      |
| Toluene-d8 (S)               | 100          | %  | 70-130       |                           | 2.5 |                          | 11/21/15 20:13 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW7          |         | Lab ID: 92276240011         |              | Collected: 11/10/15 08:20    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.020        | 0.020                        | 1  | 11/18/15 20:18           | 11/19/15 12:06 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 97      | %                           | 60-140       |                              | 1  | 11/18/15 20:18           | 11/19/15 12:06 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1  |                          | 11/20/15 12:43 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/20/15 12:43 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/20/15 12:43 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1  |                          | 11/20/15 12:43 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1  |                          | 11/20/15 12:43 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/20/15 12:43 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/20/15 12:43 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/20/15 12:43 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1  |                          | 11/20/15 12:43 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/20/15 12:43 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/20/15 12:43 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/20/15 12:43 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/20/15 12:43 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/20/15 12:43 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/20/15 12:43 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 113     | %                           | 70-130       |                              | 1  |                          | 11/20/15 12:43 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 123     | %                           | 70-130       |                              | 1  |                          | 11/20/15 12:43 | 17060-07-0    |      |
| Toluene-d8 (S)               | 107     | %                           | 70-130       |                              | 1  |                          | 11/20/15 12:43 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW8          |         | Lab ID: 92276240012         |              | Collected: 11/10/15 11:39    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:18 | 11/19/15 12:26 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 97      | %                           | 60-140       |                              | 1                        | 11/18/15 20:18 | 11/19/15 12:26 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/21/15 15:41 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/21/15 15:41 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 15:41 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/21/15 15:41 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/21/15 15:41 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/21/15 15:41 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/21/15 15:41 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 15:41 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/21/15 15:41 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 15:41 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/21/15 15:41 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 15:41 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/21/15 15:41 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 15:41 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/21/15 15:41 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 15:41 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 15:41 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 110     | %                           | 70-130       |                              | 1                        |                | 11/21/15 15:41 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - DUP1      Lab ID: 92276240013      Collected: 11/10/15 00:00      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:18 | 11/19/15 12:46 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 104     | %     | 60-140       |       | 1  | 11/18/15 20:18 | 11/19/15 12:46 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | 728     | ug/L  | 100          | 76.8  | 1  |                | 11/22/15 04:44 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/22/15 04:44 | 994-05-8   |      |
| Benzene   | 183     | ug/L  | 10.0         | 3.4   | 2  |                | 11/23/15 12:33 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/22/15 04:44 | 624-95-3   |      |
| tert-Butyl Alcohol  | 60.9J   | ug/L  | 100          | 57.7  | 1  |                | 11/22/15 04:44 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/22/15 04:44 | 762-75-4   |      |
| 1,2-Dichloroethane  | 40.1    | ug/L  | 5.0          | 1.8   | 1  |                | 11/22/15 04:44 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/22/15 04:44 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/22/15 04:44 | 64-17-5    |      |
| Ethylbenzene  | 39.4    | ug/L  | 5.0          | 1.6   | 1  |                | 11/22/15 04:44 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/22/15 04:44 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/22/15 04:44 | 1634-04-4  |      |
| Naphthalene   | 54.7    | ug/L  | 5.0          | 2.0   | 1  |                | 11/22/15 04:44 | 91-20-3    |      |
| Toluene   | 10.6    | ug/L  | 5.0          | 1.6   | 1  |                | 11/22/15 04:44 | 108-88-3   |      |
| Xylene (Total)  | 41.0    | ug/L  | 10.0         | 2.7   | 1  |                | 11/22/15 04:44 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 96      | %     | 70-130       |       | 1  |                | 11/22/15 04:44 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 109     | %     | 70-130       |       | 1  |                | 11/22/15 04:44 | 17060-07-0 |      |
| Toluene-d8 (S)  | 95      | %     | 70-130       |       | 1  |                | 11/22/15 04:44 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW24         |         | Lab ID: 92276240014                                      |              | Collected: 11/10/15 16:10 | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1                        | 11/18/15 20:18 | 11/19/15 13:06 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |  |              |                           |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 99      | %  | 60-140       |                           | 1                        | 11/18/15 20:18 | 11/19/15 13:06 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 76.8                      | 1                        |                | 11/21/15 15:58 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1                        |                | 11/21/15 15:58 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L   | 5.0          | 1.7                       | 1                        |                | 11/21/15 15:58 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1                        |                | 11/21/15 15:58 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1                        |                | 11/21/15 15:58 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1                        |                | 11/21/15 15:58 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.8                       | 1                        |                | 11/21/15 15:58 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1                        |                | 11/21/15 15:58 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1                        |                | 11/21/15 15:58 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.6                       | 1                        |                | 11/21/15 15:58 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1                        |                | 11/21/15 15:58 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1                        |                | 11/21/15 15:58 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.0                       | 1                        |                | 11/21/15 15:58 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L   | 5.0          | 1.6                       | 1                        |                | 11/21/15 15:58 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L   | 10.0         | 2.7                       | 1                        |                | 11/21/15 15:58 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |  |              |                           |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 103     | %  | 70-130       |                           | 1                        |                | 11/21/15 15:58 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 101     | %  | 70-130       |                           | 1                        |                | 11/21/15 15:58 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 108     | %  | 70-130       |                           | 1                        |                | 11/21/15 15:58 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW26         |         | Lab ID: 92276240015         |              | Collected: 11/10/15 15:40    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.020        | 0.020                        | 1  | 11/18/15 20:18           | 11/19/15 13:26 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 100     | %                           | 60-140       |                              | 1  | 11/18/15 20:18           | 11/19/15 13:26 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1  |                          | 11/21/15 16:15 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/21/15 16:15 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 16:15 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1  |                          | 11/21/15 16:15 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1  |                          | 11/21/15 16:15 | 75-65-0       | M1   |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/21/15 16:15 | 762-75-4      | P5   |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/21/15 16:15 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 16:15 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1  |                          | 11/21/15 16:15 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/21/15 16:15 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/21/15 16:15 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 16:15 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/21/15 16:15 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/21/15 16:15 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/21/15 16:15 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 102     | %                           | 70-130       |                              | 1  |                          | 11/21/15 16:15 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 100     | %                           | 70-130       |                              | 1  |                          | 11/21/15 16:15 | 17060-07-0    |      |
| Toluene-d8 (S)               | 109     | %                           | 70-130       |                              | 1  |                          | 11/21/15 16:15 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW6          |         | Lab ID: 92276240016                                      |              | Collected: 11/10/15 15:10 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1  | 11/18/15 20:43           | 11/19/15 15:47 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 94      | %  | 60-140       |                           | 1  | 11/18/15 20:43           | 11/19/15 15:47 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 76.8                      | 1  |                          | 11/21/15 16:32 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1  |                          | 11/21/15 16:32 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 16:32 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1  |                          | 11/21/15 16:32 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1  |                          | 11/21/15 16:32 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1  |                          | 11/21/15 16:32 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 11/21/15 16:32 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 16:32 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1  |                          | 11/21/15 16:32 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/21/15 16:32 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1  |                          | 11/21/15 16:32 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 16:32 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 11/21/15 16:32 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/21/15 16:32 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 11/21/15 16:32 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 101     | %  | 70-130       |                           | 1  |                          | 11/21/15 16:32 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 101     | %  | 70-130       |                           | 1  |                          | 11/21/15 16:32 | 17060-07-0    |      |
| Toluene-d8 (S)               | 109     | %  | 70-130       |                           | 1  |                          | 11/21/15 16:32 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - FB2          |         | Lab ID: 92276240017         |              | Collected: 11/10/15 16:10    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.020        | 0.020                        | 1                        | 11/18/15 20:43 | 11/19/15 16:07 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 103     | %                           | 60-140       |                              | 1                        | 11/18/15 20:43 | 11/19/15 16:07 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/21/15 14:33 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/21/15 14:33 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 14:33 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/21/15 14:33 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/21/15 14:33 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/21/15 14:33 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/21/15 14:33 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 14:33 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/21/15 14:33 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 14:33 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/21/15 14:33 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 14:33 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/21/15 14:33 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 14:33 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/21/15 14:33 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 103     | %                           | 70-130       |                              | 1                        |                | 11/21/15 14:33 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 14:33 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 109     | %                           | 70-130       |                              | 1                        |                | 11/21/15 14:33 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW2          |         | Lab ID: 92276240018         |              | Collected: 11/11/15 16:13    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.020        | 0.020                        | 1                        | 11/18/15 20:43 | 11/19/15 17:07 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 106     | %                           | 60-140       |                              | 1                        | 11/18/15 20:43 | 11/19/15 17:07 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | 214     | ug/L                        | 100          | 76.8                         | 1                        |                | 11/21/15 17:06 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/21/15 17:06 | 994-05-8   |      |  |
| Benzene                      | 10.8    | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:06 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/21/15 17:06 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | 350     | ug/L                        | 100          | 57.7                         | 1                        |                | 11/21/15 17:06 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/21/15 17:06 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | 21.3    | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/21/15 17:06 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:06 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/21/15 17:06 | 64-17-5    |      |  |
| Ethylbenzene                 | 11.5    | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 17:06 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/21/15 17:06 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:06 | 1634-04-4  |      |  |
| Naphthalene                  | 2.1J    | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/21/15 17:06 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 17:06 | 108-88-3   |      |  |
| Xylene (Total)               | 12.1    | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/21/15 17:06 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 100     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:06 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 108     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:06 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 107     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:06 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW4          |         | Lab ID: 92276240019         |              | Collected: 11/11/15 14:48    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:43 | 11/19/15 17:27 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 95      | %                           | 60-140       |                              | 1                        | 11/18/15 20:43 | 11/19/15 17:27 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/21/15 17:23 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/21/15 17:23 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:23 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/21/15 17:23 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/21/15 17:23 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/21/15 17:23 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/21/15 17:23 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:23 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/21/15 17:23 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 17:23 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/21/15 17:23 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:23 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/21/15 17:23 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 17:23 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/21/15 17:23 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:23 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:23 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 111     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:23 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW5          |         | Lab ID: 92276240020                                      |                 | Collected: 11/11/15 13:05 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|-----------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report<br>Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                 |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019           | 0.019                     | 1  | 11/18/15 20:44           | 11/19/15 17:47 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |                 |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 96      | %  | 60-140          |                           | 1  | 11/18/15 20:44           | 11/19/15 17:47 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |                 |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100             | 76.8                      | 1  |                          | 11/21/15 17:40 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0            | 3.4                       | 1  |                          | 11/21/15 17:40 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0             | 1.7                       | 1  |                          | 11/21/15 17:40 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100             | 32.1                      | 1  |                          | 11/21/15 17:40 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100             | 57.7                      | 1  |                          | 11/21/15 17:40 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0            | 7.3                       | 1  |                          | 11/21/15 17:40 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0             | 1.8                       | 1  |                          | 11/21/15 17:40 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0             | 1.7                       | 1  |                          | 11/21/15 17:40 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200             | 138                       | 1  |                          | 11/21/15 17:40 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0             | 1.6                       | 1  |                          | 11/21/15 17:40 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0            | 3.6                       | 1  |                          | 11/21/15 17:40 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0             | 1.7                       | 1  |                          | 11/21/15 17:40 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0             | 2.0                       | 1  |                          | 11/21/15 17:40 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0             | 1.6                       | 1  |                          | 11/21/15 17:40 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0            | 2.7                       | 1  |                          | 11/21/15 17:40 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |                 |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 103     | %  | 70-130          |                           | 1  |                          | 11/21/15 17:40 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 106     | %  | 70-130          |                           | 1  |                          | 11/21/15 17:40 | 17060-07-0    |      |
| Toluene-d8 (S)               | 111     | %  | 70-130          |                           | 1  |                          | 11/21/15 17:40 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW6          |         | Lab ID: 92276240021         |              | Collected: 11/11/15 11:50    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:44 | 11/19/15 18:07 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 99      | %                           | 60-140       |                              | 1                        | 11/18/15 20:44 | 11/19/15 18:07 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/21/15 17:57 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/21/15 17:57 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:57 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/21/15 17:57 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/21/15 17:57 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/21/15 17:57 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/21/15 17:57 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:57 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/21/15 17:57 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 17:57 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/21/15 17:57 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 17:57 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/21/15 17:57 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 17:57 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/21/15 17:57 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 103     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:57 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:57 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 111     | %                           | 70-130       |                              | 1                        |                | 11/21/15 17:57 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW8          |         | Lab ID: 92276240022         |              | Collected: 11/11/15 13:59    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:44 | 11/19/15 18:27 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 90      | %                           | 60-140       |                              | 1                        | 11/18/15 20:44 | 11/19/15 18:27 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/21/15 18:14 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/21/15 18:14 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 18:14 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/21/15 18:14 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/21/15 18:14 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/21/15 18:14 | 762-75-4   |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/21/15 18:14 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 18:14 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/21/15 18:14 | 64-17-5    |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 18:14 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/21/15 18:14 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/21/15 18:14 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/21/15 18:14 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/21/15 18:14 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/21/15 18:14 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 103     | %                           | 70-130       |                              | 1                        |                | 11/21/15 18:14 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1                        |                | 11/21/15 18:14 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 111     | %                           | 70-130       |                              | 1                        |                | 11/21/15 18:14 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW9          |         | Lab ID: 92276240023         |                 | Collected: 11/11/15 07:40    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|-----------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report<br>Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |                 | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019           | 0.019                        | 1  | 11/18/15 20:44           | 11/19/15 18:47 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |                 |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 78      | %                           | 60-140          |                              | 1  | 11/18/15 20:44           | 11/19/15 18:47 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |                 |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100             | 76.8                         | 1  |                          | 11/21/15 18:31 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0            | 3.4                          | 1  |                          | 11/21/15 18:31 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0             | 1.7                          | 1  |                          | 11/21/15 18:31 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100             | 32.1                         | 1  |                          | 11/21/15 18:31 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100             | 57.7                         | 1  |                          | 11/21/15 18:31 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0            | 7.3                          | 1  |                          | 11/21/15 18:31 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0             | 1.8                          | 1  |                          | 11/21/15 18:31 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0             | 1.7                          | 1  |                          | 11/21/15 18:31 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200             | 138                          | 1  |                          | 11/21/15 18:31 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0             | 1.6                          | 1  |                          | 11/21/15 18:31 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0            | 3.6                          | 1  |                          | 11/21/15 18:31 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0             | 1.7                          | 1  |                          | 11/21/15 18:31 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0             | 2.0                          | 1  |                          | 11/21/15 18:31 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0             | 1.6                          | 1  |                          | 11/21/15 18:31 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0            | 2.7                          | 1  |                          | 11/21/15 18:31 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |                 |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 106     | %                           | 70-130          |                              | 1  |                          | 11/21/15 18:31 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 103     | %                           | 70-130          |                              | 1  |                          | 11/21/15 18:31 | 17060-07-0    |      |
| Toluene-d8 (S)               | 109     | %                           | 70-130          |                              | 1  |                          | 11/21/15 18:31 | 2037-26-5     |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW10      Lab ID: 92276240024      Collected: 11/11/15 08:13      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/18/15 20:44 | 11/19/15 19:07 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 99      | %     | 60-140       |       | 1  | 11/18/15 20:44 | 11/19/15 19:07 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/21/15 18:48 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/21/15 18:48 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/21/15 18:48 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/21/15 18:48 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/21/15 18:48 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/21/15 18:48 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/21/15 18:48 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/21/15 18:48 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/21/15 18:48 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/21/15 18:48 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/21/15 18:48 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/21/15 18:48 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/21/15 18:48 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/21/15 18:48 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/21/15 18:48 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 104     | %     | 70-130       |       | 1  |                | 11/21/15 18:48 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 103     | %     | 70-130       |       | 1  |                | 11/21/15 18:48 | 17060-07-0 |      |
| Toluene-d8 (S)  | 109     | %     | 70-130       |       | 1  |                | 11/21/15 18:48 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW20      Lab ID: 92276240025      Collected: 11/11/15 12:35      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:44 | 11/19/15 19:27 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 96      | %     | 60-140       |       | 1  | 11/18/15 20:44 | 11/19/15 19:27 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 76.8  | 1  |                | 11/21/15 19:05 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 11/21/15 19:05 | 994-05-8   |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/21/15 19:05 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1  | 1  |                | 11/21/15 19:05 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7  | 1  |                | 11/21/15 19:05 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 11/21/15 19:05 | 762-75-4   |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/21/15 19:05 | 107-06-2   |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/21/15 19:05 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 11/21/15 19:05 | 64-17-5    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/21/15 19:05 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 11/21/15 19:05 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/21/15 19:05 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/21/15 19:05 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 11/21/15 19:05 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/21/15 19:05 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 101     | %     | 70-130       |       | 1  |                | 11/21/15 19:05 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 103     | %     | 70-130       |       | 1  |                | 11/21/15 19:05 | 17060-07-0 |      |
| Toluene-d8 (S)  | 109     | %     | 70-130       |       | 1  |                | 11/21/15 19:05 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW21         |         | Lab ID: 92276240026                                      |              | Collected: 11/11/15 11:09 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1  | 11/18/15 20:44           | 11/19/15 19:47 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 100     | %  | 60-140       |                           | 1  | 11/18/15 20:44           | 11/19/15 19:47 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 76.8                      | 1  |                          | 11/21/15 19:22 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1  |                          | 11/21/15 19:22 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 19:22 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1  |                          | 11/21/15 19:22 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1  |                          | 11/21/15 19:22 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1  |                          | 11/21/15 19:22 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 11/21/15 19:22 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 19:22 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1  |                          | 11/21/15 19:22 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/21/15 19:22 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1  |                          | 11/21/15 19:22 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 19:22 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 11/21/15 19:22 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/21/15 19:22 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 11/21/15 19:22 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 105     | %  | 70-130       |                           | 1  |                          | 11/21/15 19:22 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 102     | %  | 70-130       |                           | 1  |                          | 11/21/15 19:22 | 17060-07-0    |      |
| Toluene-d8 (S)               | 111     | %  | 70-130       |                           | 1  |                          | 11/21/15 19:22 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW27         |         | Lab ID: 92276240027         |              | Collected: 11/11/15 10:40    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1  | 11/18/15 20:44           | 11/19/15 20:07 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 107     | %                           | 60-140       |                              | 1  | 11/18/15 20:44           | 11/19/15 20:07 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1  |                          | 11/21/15 19:39 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/21/15 19:39 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 19:39 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1  |                          | 11/21/15 19:39 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1  |                          | 11/21/15 19:39 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/21/15 19:39 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/21/15 19:39 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 19:39 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1  |                          | 11/21/15 19:39 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/21/15 19:39 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/21/15 19:39 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 19:39 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/21/15 19:39 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/21/15 19:39 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/21/15 19:39 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 103     | %                           | 70-130       |                              | 1  |                          | 11/21/15 19:39 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1  |                          | 11/21/15 19:39 | 17060-07-0    |      |
| Toluene-d8 (S)               | 109     | %                           | 70-130       |                              | 1  |                          | 11/21/15 19:39 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW29      Lab ID: 92276240028      Collected: 11/11/15 16:56      Received: 11/16/15 08:28      Matrix: Water |             |       |              |       |    |                |                |            |      |
|---|-------------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results     | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |             |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND          | ug/L  | 0.020        | 0.020 | 1  | 11/18/15 20:44 | 11/19/15 20:27 | 106-93-4   |      |
| <b>Surrogates</b>   |             |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 101         | %     | 60-140       |       | 1  | 11/18/15 20:44 | 11/19/15 20:27 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |             |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | <b>3470</b> | ug/L  | 400          | 307   | 4  |                | 11/22/15 02:28 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND          | ug/L  | 40.0         | 13.6  | 4  |                | 11/22/15 02:28 | 994-05-8   |      |
| Benzene   | <b>8.1J</b> | ug/L  | 20.0         | 6.8   | 4  |                | 11/22/15 02:28 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol  | ND          | ug/L  | 400          | 128   | 4  |                | 11/22/15 02:28 | 624-95-3   |      |
| tert-Butyl Alcohol  | <b>285J</b> | ug/L  | 400          | 231   | 4  |                | 11/22/15 02:28 | 75-65-0    |      |
| tert-Butyl Formate  | ND          | ug/L  | 200          | 29.2  | 4  |                | 11/22/15 02:28 | 762-75-4   |      |
| 1,2-Dichloroethane  | <b>63.8</b> | ug/L  | 20.0         | 7.2   | 4  |                | 11/22/15 02:28 | 107-06-2   |      |
| Diisopropyl ether   | ND          | ug/L  | 20.0         | 6.8   | 4  |                | 11/22/15 02:28 | 108-20-3   |      |
| Ethanol   | ND          | ug/L  | 800          | 551   | 4  |                | 11/22/15 02:28 | 64-17-5    |      |
| Ethylbenzene  | ND          | ug/L  | 20.0         | 6.4   | 4  |                | 11/22/15 02:28 | 100-41-4   |      |
| Ethyl-tert-butyl ether  | ND          | ug/L  | 40.0         | 14.4  | 4  |                | 11/22/15 02:28 | 637-92-3   |      |
| Methyl-tert-butyl ether   | ND          | ug/L  | 20.0         | 6.8   | 4  |                | 11/22/15 02:28 | 1634-04-4  |      |
| Naphthalene   | ND          | ug/L  | 20.0         | 8.0   | 4  |                | 11/22/15 02:28 | 91-20-3    |      |
| Toluene   | ND          | ug/L  | 20.0         | 6.4   | 4  |                | 11/22/15 02:28 | 108-88-3   |      |
| Xylene (Total)  | ND          | ug/L  | 40.0         | 10.8  | 4  |                | 11/22/15 02:28 | 1330-20-7  |      |
| <b>Surrogates</b>   |             |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 103         | %     | 70-130       |       | 4  |                | 11/22/15 02:28 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 105         | %     | 70-130       |       | 4  |                | 11/22/15 02:28 | 17060-07-0 |      |
| Toluene-d8 (S)  | 107         | %     | 70-130       |       | 4  |                | 11/22/15 02:28 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW4          |         | Lab ID: 92276240029         |              | Collected: 11/11/15 09:45    | Received: 11/16/15 08:28 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.019        | 0.019                        | 1                        | 11/18/15 20:44 | 11/19/15 20:47 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 101     | %                           | 60-140       |                              | 1                        | 11/18/15 20:44 | 11/19/15 20:47 | 301-79-56  |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1                        |                | 11/22/15 01:37 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1                        |                | 11/22/15 01:37 | 994-05-8   |      |  |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/22/15 01:37 | 71-43-2    |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1                        |                | 11/22/15 01:37 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1                        |                | 11/22/15 01:37 | 75-65-0    | M1   |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1                        |                | 11/22/15 01:37 | 762-75-4   | P5   |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1                        |                | 11/22/15 01:37 | 107-06-2   |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/22/15 01:37 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1                        |                | 11/22/15 01:37 | 64-17-5    | M1   |  |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/22/15 01:37 | 100-41-4   |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1                        |                | 11/22/15 01:37 | 637-92-3   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1                        |                | 11/22/15 01:37 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1                        |                | 11/22/15 01:37 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1                        |                | 11/22/15 01:37 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1                        |                | 11/22/15 01:37 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 103     | %                           | 70-130       |                              | 1                        |                | 11/22/15 01:37 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 101     | %                           | 70-130       |                              | 1                        |                | 11/22/15 01:37 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 108     | %                           | 70-130       |                              | 1                        |                | 11/22/15 01:37 | 2037-26-5  |      |  |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - FB3          |         | Lab ID: 92276240030                                      |              | Collected: 11/11/15 17:15 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019                     | 1  | 11/18/15 20:44           | 11/19/15 21:07 | 106-93-4      |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 94      | %  | 60-140       |                           | 1  | 11/18/15 20:44           | 11/19/15 21:07 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 76.8                      | 1  |                          | 11/21/15 15:24 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 3.4                       | 1  |                          | 11/21/15 15:24 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 15:24 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 32.1                      | 1  |                          | 11/21/15 15:24 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 57.7                      | 1  |                          | 11/21/15 15:24 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 7.3                       | 1  |                          | 11/21/15 15:24 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 11/21/15 15:24 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 15:24 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 138                       | 1  |                          | 11/21/15 15:24 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/21/15 15:24 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 3.6                       | 1  |                          | 11/21/15 15:24 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 11/21/15 15:24 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 11/21/15 15:24 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.6                       | 1  |                          | 11/21/15 15:24 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 11/21/15 15:24 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |  |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 103     | %  | 70-130       |                           | 1  |                          | 11/21/15 15:24 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 103     | %  | 70-130       |                           | 1  |                          | 11/21/15 15:24 | 17060-07-0    |      |
| Toluene-d8 (S)               | 109     | %  | 70-130       |                           | 1  |                          | 11/21/15 15:24 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - RW1          |             | Lab ID: 92276240031         |              | Collected: 11/12/15 09:20    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|-------------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results     | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |             | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | <b>0.24</b> | ug/L                        | 0.019        | 0.019                        | 1  | 11/18/15 20:44           | 11/19/15 21:27 | 106-93-4      |      |
| <b>Surrogates</b>            |             |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 111         | %                           | 60-140       |                              | 1  | 11/18/15 20:44           | 11/19/15 21:27 | 301-79-56     |      |
| <b>8260 MSV</b>              |             | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND          | ug/L                        | 100          | 76.8                         | 1  |                          | 11/23/15 13:58 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND          | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/23/15 13:58 | 994-05-8      |      |
| Benzene                      | <b>27.2</b> | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/23/15 13:58 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND          | ug/L                        | 100          | 32.1                         | 1  |                          | 11/23/15 13:58 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND          | ug/L                        | 100          | 57.7                         | 1  |                          | 11/23/15 13:58 | 75-65-0       |      |
| tert-Butyl Formate           | ND          | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/23/15 13:58 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND          | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/23/15 13:58 | 107-06-2      |      |
| Diisopropyl ether            | ND          | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/23/15 13:58 | 108-20-3      |      |
| Ethanol                      | ND          | ug/L                        | 200          | 138                          | 1  |                          | 11/23/15 13:58 | 64-17-5       |      |
| Ethylbenzene                 | <b>49.0</b> | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/23/15 13:58 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND          | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/23/15 13:58 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND          | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/23/15 13:58 | 1634-04-4     |      |
| Naphthalene                  | <b>16.9</b> | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/23/15 13:58 | 91-20-3       |      |
| Toluene                      | <b>92.7</b> | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/23/15 13:58 | 108-88-3      |      |
| Xylene (Total)               | <b>296</b>  | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/23/15 13:58 | 1330-20-7     |      |
| <b>Surrogates</b>            |             |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 104         | %                           | 70-130       |                              | 1  |                          | 11/23/15 13:58 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 107         | %                           | 70-130       |                              | 1  |                          | 11/23/15 13:58 | 17060-07-0    |      |
| Toluene-d8 (S)               | 110         | %                           | 70-130       |                              | 1  |                          | 11/23/15 13:58 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW1      Lab ID: 92276240032      Collected: 11/12/15 10:00      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | 2.3     | ug/L  | 0.078        | 0.078 | 4  | 11/18/15 20:44 | 11/22/15 15:27 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 87      | %     | 60-140       |       | 1  | 11/18/15 20:44 | 11/19/15 21:47 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | 1540    | ug/L  | 1000         | 768   | 10 |                | 11/23/15 14:48 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 100          | 34.0  | 10 |                | 11/23/15 14:48 | 994-05-8   |      |
| Benzene  | 568     | ug/L  | 50.0         | 17.0  | 10 |                | 11/23/15 14:48 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 1000         | 321   | 10 |                | 11/23/15 14:48 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 1000         | 577   | 10 |                | 11/23/15 14:48 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 500          | 73.0  | 10 |                | 11/23/15 14:48 | 762-75-4   |      |
| 1,2-Dichloroethane   | 28.8J   | ug/L  | 50.0         | 18.0  | 10 |                | 11/23/15 14:48 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 50.0         | 17.0  | 10 |                | 11/23/15 14:48 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 2000         | 1380  | 10 |                | 11/23/15 14:48 | 64-17-5    |      |
| Ethylbenzene   | 521     | ug/L  | 50.0         | 16.0  | 10 |                | 11/23/15 14:48 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 100          | 36.0  | 10 |                | 11/23/15 14:48 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 50.0         | 17.0  | 10 |                | 11/23/15 14:48 | 1634-04-4  |      |
| Naphthalene  | 199     | ug/L  | 50.0         | 20.0  | 10 |                | 11/23/15 14:48 | 91-20-3    |      |
| Toluene  | 513     | ug/L  | 50.0         | 16.0  | 10 |                | 11/23/15 14:48 | 108-88-3   |      |
| Xylene (Total)   | 3670    | ug/L  | 100          | 27.0  | 10 |                | 11/23/15 14:48 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 101     | %     | 70-130       |       | 10 |                | 11/23/15 14:48 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 107     | %     | 70-130       |       | 10 |                | 11/23/15 14:48 | 17060-07-0 |      |
| Toluene-d8 (S)   | 107     | %     | 70-130       |       | 10 |                | 11/23/15 14:48 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - TW1          |              | Lab ID: 92276240033         |              | Collected: 11/12/15 11:15    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|--------------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results      | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |              | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND           | ug/L                        | 0.020        | 0.020                        | 1  | 11/18/15 20:44           | 11/19/15 22:07 | 106-93-4      |      |
| <b>Surrogates</b>            |              |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 90           | %                           | 60-140       |                              | 1  | 11/18/15 20:44           | 11/19/15 22:07 | 301-79-56     |      |
| <b>8260 MSV</b>              |              | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | <b>1080</b>  | ug/L                        | 100          | 76.8                         | 1  |                          | 11/22/15 05:01 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND           | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/22/15 05:01 | 994-05-8      |      |
| Benzene                      | <b>17.0</b>  | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/22/15 05:01 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND           | ug/L                        | 100          | 32.1                         | 1  |                          | 11/22/15 05:01 | 624-95-3      |      |
| tert-Butyl Alcohol           | <b>64.9J</b> | ug/L                        | 100          | 57.7                         | 1  |                          | 11/22/15 05:01 | 75-65-0       |      |
| tert-Butyl Formate           | ND           | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/22/15 05:01 | 762-75-4      |      |
| 1,2-Dichloroethane           | <b>59.5</b>  | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/22/15 05:01 | 107-06-2      |      |
| Diisopropyl ether            | ND           | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/22/15 05:01 | 108-20-3      |      |
| Ethanol                      | ND           | ug/L                        | 200          | 138                          | 1  |                          | 11/22/15 05:01 | 64-17-5       |      |
| Ethylbenzene                 | <b>9.5</b>   | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/22/15 05:01 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND           | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/22/15 05:01 | 637-92-3      |      |
| Methyl-tert-butyl ether      | <b>7.8</b>   | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/22/15 05:01 | 1634-04-4     |      |
| Naphthalene                  | <b>2.5J</b>  | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/22/15 05:01 | 91-20-3       |      |
| Toluene                      | ND           | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/22/15 05:01 | 108-88-3      |      |
| Xylene (Total)               | <b>12.0</b>  | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/22/15 05:01 | 1330-20-7     |      |
| <b>Surrogates</b>            |              |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 99           | %                           | 70-130       |                              | 1  |                          | 11/22/15 05:01 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 106          | %                           | 70-130       |                              | 1  |                          | 11/22/15 05:01 | 17060-07-0    |      |
| Toluene-d8 (S)               | 101          | %                           | 70-130       |                              | 1  |                          | 11/22/15 05:01 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW3      Lab ID: 92276240034      Collected: 11/12/15 08:15      Received: 11/16/15 08:28      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/18/15 20:44 | 11/19/15 22:27 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 136     | %     | 60-140       |       | 1  | 11/18/15 20:44 | 11/19/15 22:27 | 301-79-56  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | 12200   | ug/L  | 5000         | 3840  | 50 |                | 11/22/15 03:19 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 500          | 170   | 50 |                | 11/22/15 03:19 | 994-05-8   |      |
| Benzene  | 6710    | ug/L  | 250          | 85.0  | 50 |                | 11/22/15 03:19 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 5000         | 1600  | 50 |                | 11/22/15 03:19 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 5000         | 2880  | 50 |                | 11/22/15 03:19 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 2500         | 365   | 50 |                | 11/22/15 03:19 | 762-75-4   |      |
| 1,2-Dichloroethane   | 511     | ug/L  | 250          | 90.0  | 50 |                | 11/22/15 03:19 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 250          | 85.0  | 50 |                | 11/22/15 03:19 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 10000        | 6890  | 50 |                | 11/22/15 03:19 | 64-17-5    |      |
| Ethylbenzene   | 445     | ug/L  | 250          | 80.0  | 50 |                | 11/22/15 03:19 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 500          | 180   | 50 |                | 11/22/15 03:19 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 250          | 85.0  | 50 |                | 11/22/15 03:19 | 1634-04-4  |      |
| Naphthalene  | 360     | ug/L  | 250          | 100   | 50 |                | 11/22/15 03:19 | 91-20-3    |      |
| Toluene  | 106J    | ug/L  | 250          | 80.0  | 50 |                | 11/22/15 03:19 | 108-88-3   |      |
| Xylene (Total)   | 2770    | ug/L  | 500          | 135   | 50 |                | 11/22/15 03:19 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 104     | %     | 70-130       |       | 50 |                | 11/22/15 03:19 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 112     | %     | 70-130       |       | 50 |                | 11/22/15 03:19 | 17060-07-0 |      |
| Toluene-d8 (S)   | 105     | %     | 70-130       |       | 50 |                | 11/22/15 03:19 | 2037-26-5  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - MW7  |         |       |              |      |    |                |                |            |      |
|--|---------|-------|--------------|------|----|----------------|----------------|------------|------|
| Lab ID: 92276240035 Collected: 11/12/15 07:35 Received: 11/16/15 08:28 Matrix: Water |         |       |              |      |    |                |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b>   |         |       |              |      |    |                |                |            |      |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011                             |         |       |              |      |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | 3.4     | ug/L  | 0.19         | 0.19 | 10 | 11/18/15 20:44 | 11/22/15 12:25 | 106-93-4   | D6   |
| <b>Surrogates</b>  |         |       |              |      |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 0       | %     | 60-140       |      | 10 | 11/18/15 20:44 | 11/22/15 12:25 | 301-79-56  | S4   |
| <b>8260 MSV</b>  |         |       |              |      |    |                |                |            |      |
| Analytical Method: EPA 8260  |         |       |              |      |    |                |                |            |      |
| tert-Amyl Alcohol  | 5020    | ug/L  | 2000         | 1540 | 20 |                | 11/22/15 03:36 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 200          | 68.0 | 20 |                | 11/22/15 03:36 | 994-05-8   |      |
| Benzene  | 1960    | ug/L  | 100          | 34.0 | 20 |                | 11/22/15 03:36 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 2000         | 642  | 20 |                | 11/22/15 03:36 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 2000         | 1150 | 20 |                | 11/22/15 03:36 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 1000         | 146  | 20 |                | 11/22/15 03:36 | 762-75-4   |      |
| 1,2-Dichloroethane   | 113     | ug/L  | 100          | 36.0 | 20 |                | 11/22/15 03:36 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 100          | 34.0 | 20 |                | 11/22/15 03:36 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 4000         | 2760 | 20 |                | 11/22/15 03:36 | 64-17-5    |      |
| Ethylbenzene   | 254     | ug/L  | 100          | 32.0 | 20 |                | 11/22/15 03:36 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 200          | 72.0 | 20 |                | 11/22/15 03:36 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 100          | 34.0 | 20 |                | 11/22/15 03:36 | 1634-04-4  |      |
| Naphthalene  | 227     | ug/L  | 100          | 40.0 | 20 |                | 11/22/15 03:36 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 100          | 32.0 | 20 |                | 11/22/15 03:36 | 108-88-3   |      |
| Xylene (Total)   | 1970    | ug/L  | 200          | 54.0 | 20 |                | 11/22/15 03:36 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |      |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 105     | %     | 70-130       |      | 20 |                | 11/22/15 03:36 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |      | 20 |                | 11/22/15 03:36 | 17060-07-0 |      |
| Toluene-d8 (S)   | 108     | %     | 70-130       |      | 20 |                | 11/22/15 03:36 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - DUP3   |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Lab ID: 92276240036 Collected: 11/13/15 00:00 Received: 11/16/15 08:28 Matrix: Water |         |       |              |       |    |                |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8011 GCS EDB and DBCP</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011                             |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | 0.55    | ug/L  | 0.019        | 0.019 | 1  | 11/19/15 18:30 | 11/20/15 03:30 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 87      | %     | 60-140       |       | 1  | 11/19/15 18:30 | 11/20/15 03:30 | 301-79-56  |      |
| <b>8260 MSV</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | 11500   | ug/L  | 2500         | 1920  | 25 |                | 11/22/15 03:53 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 250          | 85.0  | 25 |                | 11/22/15 03:53 | 994-05-8   |      |
| Benzene  | 7020    | ug/L  | 250          | 85.0  | 50 |                | 11/23/15 12:16 | 71-43-2    |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 2500         | 802   | 25 |                | 11/22/15 03:53 | 624-95-3   |      |
| tert-Butyl Alcohol   | 1780J   | ug/L  | 2500         | 1440  | 25 |                | 11/22/15 03:53 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 1250         | 182   | 25 |                | 11/22/15 03:53 | 762-75-4   |      |
| 1,2-Dichloroethane   | 484     | ug/L  | 125          | 45.0  | 25 |                | 11/22/15 03:53 | 107-06-2   |      |
| Diisopropyl ether  | ND      | ug/L  | 125          | 42.5  | 25 |                | 11/22/15 03:53 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 5000         | 3440  | 25 |                | 11/22/15 03:53 | 64-17-5    |      |
| Ethylbenzene   | 449     | ug/L  | 125          | 40.0  | 25 |                | 11/22/15 03:53 | 100-41-4   |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 250          | 90.0  | 25 |                | 11/22/15 03:53 | 637-92-3   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 125          | 42.5  | 25 |                | 11/22/15 03:53 | 1634-04-4  |      |
| Naphthalene  | 376     | ug/L  | 125          | 50.0  | 25 |                | 11/22/15 03:53 | 91-20-3    |      |
| Toluene  | 102J    | ug/L  | 125          | 40.0  | 25 |                | 11/22/15 03:53 | 108-88-3   |      |
| Xylene (Total)   | 2780    | ug/L  | 250          | 67.5  | 25 |                | 11/22/15 03:53 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 25 |                | 11/22/15 03:53 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 107     | %     | 70-130       |       | 25 |                | 11/22/15 03:53 | 17060-07-0 |      |
| Toluene-d8 (S)   | 104     | %     | 70-130       |       | 25 |                | 11/22/15 03:53 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: 07960 - FB4          |         | Lab ID: 92276240037         |              | Collected: 11/13/15 11:20    |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 |              | Preparation Method: EPA 8011 |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0.020        | 0.020                        | 1  | 11/19/15 18:30           | 11/20/15 03:50 | 106-93-4      |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 1-Chloro-2-bromopropane (S)  | 96      | %                           | 60-140       |                              | 1  | 11/19/15 18:30           | 11/20/15 03:50 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260 |              |                              |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 76.8                         | 1  |                          | 11/21/15 14:50 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10.0         | 3.4                          | 1  |                          | 11/21/15 14:50 | 994-05-8      |      |
| Benzene                      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 14:50 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 32.1                         | 1  |                          | 11/21/15 14:50 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 57.7                         | 1  |                          | 11/21/15 14:50 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50.0         | 7.3                          | 1  |                          | 11/21/15 14:50 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L                        | 5.0          | 1.8                          | 1  |                          | 11/21/15 14:50 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 14:50 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L                        | 200          | 138                          | 1  |                          | 11/21/15 14:50 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/21/15 14:50 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10.0         | 3.6                          | 1  |                          | 11/21/15 14:50 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 5.0          | 1.7                          | 1  |                          | 11/21/15 14:50 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L                        | 5.0          | 2.0                          | 1  |                          | 11/21/15 14:50 | 91-20-3       |      |
| Toluene                      | ND      | ug/L                        | 5.0          | 1.6                          | 1  |                          | 11/21/15 14:50 | 108-88-3      |      |
| Xylene (Total)               | ND      | ug/L                        | 10.0         | 2.7                          | 1  |                          | 11/21/15 14:50 | 1330-20-7     |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)     | 105     | %                           | 70-130       |                              | 1  |                          | 11/21/15 14:50 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 102     | %                           | 70-130       |                              | 1  |                          | 11/21/15 14:50 | 17060-07-0    |      |
| Toluene-d8 (S)               | 109     | %                           | 70-130       |                              | 1  |                          | 11/21/15 14:50 | 2037-26-5     |      |

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## ANALYTICAL RESULTS

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Sample: TRIP BLANK        |         | Lab ID: 92276240038         |              | Collected: 11/13/15 00:00 |    | Received: 11/16/15 08:28 |                | Matrix: Water |      |
|---------------------------|---------|-----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                | Results | Units                       | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>           |         | Analytical Method: EPA 8260 |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol         | ND      | ug/L                        | 100          | 76.8                      | 1  |                          | 11/21/15 15:07 | 75-85-4       |      |
| tert-Amylmethyl ether     | ND      | ug/L                        | 10.0         | 3.4                       | 1  |                          | 11/21/15 15:07 | 994-05-8      |      |
| Benzene                   | ND      | ug/L                        | 5.0          | 1.7                       | 1  |                          | 11/21/15 15:07 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol    | ND      | ug/L                        | 100          | 32.1                      | 1  |                          | 11/21/15 15:07 | 624-95-3      |      |
| tert-Butyl Alcohol        | ND      | ug/L                        | 100          | 57.7                      | 1  |                          | 11/21/15 15:07 | 75-65-0       |      |
| tert-Butyl Formate        | ND      | ug/L                        | 50.0         | 7.3                       | 1  |                          | 11/21/15 15:07 | 762-75-4      |      |
| 1,2-Dichloroethane        | ND      | ug/L                        | 5.0          | 1.8                       | 1  |                          | 11/21/15 15:07 | 107-06-2      |      |
| Diisopropyl ether         | ND      | ug/L                        | 5.0          | 1.7                       | 1  |                          | 11/21/15 15:07 | 108-20-3      |      |
| Ethanol                   | ND      | ug/L                        | 200          | 138                       | 1  |                          | 11/21/15 15:07 | 64-17-5       |      |
| Ethylbenzene              | ND      | ug/L                        | 5.0          | 1.6                       | 1  |                          | 11/21/15 15:07 | 100-41-4      |      |
| Ethyl-tert-butyl ether    | ND      | ug/L                        | 10.0         | 3.6                       | 1  |                          | 11/21/15 15:07 | 637-92-3      |      |
| Methyl-tert-butyl ether   | ND      | ug/L                        | 5.0          | 1.7                       | 1  |                          | 11/21/15 15:07 | 1634-04-4     |      |
| Naphthalene               | ND      | ug/L                        | 5.0          | 2.0                       | 1  |                          | 11/21/15 15:07 | 91-20-3       |      |
| Toluene                   | ND      | ug/L                        | 5.0          | 1.6                       | 1  |                          | 11/21/15 15:07 | 108-88-3      |      |
| Xylene (Total)            | ND      | ug/L                        | 10.0         | 2.7                       | 1  |                          | 11/21/15 15:07 | 1330-20-7     |      |
| <b>Surrogates</b>         |         |                             |              |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)  | 105     | %                           | 70-130       |                           | 1  |                          | 11/21/15 15:07 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S) | 103     | %                           | 70-130       |                           | 1  |                          | 11/21/15 15:07 | 17060-07-0    |      |
| Toluene-d8 (S)            | 108     | %                           | 70-130       |                           | 1  |                          | 11/21/15 15:07 | 2037-26-5     |      |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: MSV/34357      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276240004

METHOD BLANK: 1610784      Matrix: Water  
Associated Lab Samples: 92276240004

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/20/15 03:54 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/20/15 03:54 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 03:54 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 03:54 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/20/15 03:54 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/20/15 03:54 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/20/15 03:54 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 03:54 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/20/15 03:54 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/20/15 03:54 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/20/15 03:54 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/20/15 03:54 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/20/15 03:54 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/20/15 03:54 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/20/15 03:54 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 113          | 70-130          |      | 11/20/15 03:54 |            |
| 4-Bromofluorobenzene (S)  | %     | 108          | 70-130          |      | 11/20/15 03:54 |            |
| Toluene-d8 (S)            | %     | 106          | 70-130          |      | 11/20/15 03:54 |            |

LABORATORY CONTROL SAMPLE: 1610785

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 50.5       | 101       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 975        | 97        | 70-130       |            |
| Benzene                   | ug/L  | 50          | 47.4       | 95        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 50.4       | 101       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2050       | 103       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 105        | 105       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 42.6       | 85        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 57.1       | 114       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 45.0       | 90        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1080       | 108       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 97.4       | 97        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 562        | 112       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 421        | 105       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 44.4       | 89        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 132        | 88        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 120       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 101       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 97        | 70-130       |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

| MATRIX SPIKE SAMPLE: 1610786 |       | 92276154020 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,2-Dichloroethane           | ug/L  | ND          | 20    | 22.3   | 111   | 70-130 |            |
| 3,3-Dimethyl-1-Butanol       | ug/L  | ND          | 400   | 427    | 107   | 70-130 |            |
| Benzene                      | ug/L  | ND          | 20    | 21.2   | 106   | 70-130 |            |
| Diisopropyl ether            | ug/L  | ND          | 20    | 19.1   | 95    | 70-130 |            |
| Ethanol                      | ug/L  | ND          | 800   | 1210   | 151   | 70-130 | M1         |
| Ethyl-tert-butyl ether       | ug/L  | ND          | 40    | 39.5   | 99    | 70-130 |            |
| Ethylbenzene                 | ug/L  | ND          | 20    | 18.9   | 95    | 70-130 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 20    | 22.4   | 112   | 70-130 |            |
| Naphthalene                  | ug/L  | ND          | 20    | 19.6   | 98    | 70-130 |            |
| tert-Amyl Alcohol            | ug/L  | ND          | 400   | 439    | 110   | 70-130 |            |
| tert-Amylmethyl ether        | ug/L  | ND          | 40    | 37.2   | 93    | 70-130 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 200   | 317    | 158   | 70-130 | M1         |
| tert-Butyl Formate           | ug/L  | ND          | 160   | ND     | 0     | 70-130 | P5         |
| Toluene                      | ug/L  | ND          | 20    | 20.0   | 100   | 70-130 |            |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 120   | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 107   | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 99    | 70-130 |            |

SAMPLE DUPLICATE: 1610787

| Parameter                 | Units | 92276154021 | Dup    | RPD | Max | Qualifiers |
|---------------------------|-------|-------------|--------|-----|-----|------------|
|                           |       | Result      | Result |     | RPD |            |
| 1,2-Dichloroethane        | ug/L  | ND          | ND     |     | 30  |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND     |     | 30  |            |
| Benzene                   | ug/L  | ND          | ND     |     | 30  |            |
| Diisopropyl ether         | ug/L  | ND          | ND     |     | 30  |            |
| Ethanol                   | ug/L  | ND          | ND     |     | 30  |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND     |     | 30  |            |
| Ethylbenzene              | ug/L  | ND          | ND     |     | 30  |            |
| Methyl-tert-butyl ether   | ug/L  | ND          | ND     |     | 30  |            |
| Naphthalene               | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amyl Alcohol         | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Alcohol        | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Formate        | ug/L  | ND          | ND     |     | 30  |            |
| Toluene                   | ug/L  | ND          | ND     |     | 30  |            |
| Xylene (Total)            | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloroethane-d4 (S) | %     | 118         | 120    | 2   |     |            |
| 4-Bromofluorobenzene (S)  | %     | 108         | 107    | 1   |     |            |
| Toluene-d8 (S)            | %     | 106         | 105    | 0   |     |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: MSV/34358 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276240001, 92276240002, 92276240003, 92276240006, 92276240007, 92276240008, 92276240009, 92276240011

METHOD BLANK: 1610814 Matrix: Water  
Associated Lab Samples: 92276240001, 92276240002, 92276240003, 92276240006, 92276240007, 92276240008, 92276240009, 92276240011

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/20/15 04:11 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/20/15 04:11 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 04:11 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 04:11 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/20/15 04:11 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/20/15 04:11 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/20/15 04:11 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/20/15 04:11 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/20/15 04:11 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/20/15 04:11 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/20/15 04:11 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/20/15 04:11 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/20/15 04:11 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/20/15 04:11 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/20/15 04:11 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 113          | 70-130          |      | 11/20/15 04:11 |            |
| 4-Bromofluorobenzene (S)  | %     | 108          | 70-130          |      | 11/20/15 04:11 |            |
| Toluene-d8 (S)            | %     | 105          | 70-130          |      | 11/20/15 04:11 |            |

LABORATORY CONTROL SAMPLE: 1610815

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 51.9       | 104       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1040       | 104       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 47.9       | 96        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 50.3       | 101       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 1730       | 86        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 106        | 106       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 44.5       | 89        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 57.3       | 115       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 45.8       | 92        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1100       | 110       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 98.2       | 98        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 571        | 114       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 431        | 108       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 44.6       | 89        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 135        | 90        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 121       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

LABORATORY CONTROL SAMPLE: 1610815

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 104       | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 97        | 70-130       |            |

MATRIX SPIKE SAMPLE: 1610816

| Parameter                 | Units | 92276240006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20          | 21.9      | 110      | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400         | 429       | 107      | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20          | 21.3      | 106      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20          | 18.6      | 93       | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800         | 1080      | 135      | 70-130       | M1         |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40          | 38.8      | 97       | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20          | 19.2      | 96       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20          | 21.9      | 109      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20          | 18.6      | 93       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400         | 448       | 112      | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40          | 36.8      | 92       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200         | 333       | 166      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20          | 19.3      | 97       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 116      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 105      | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 99       | 70-130       |            |

SAMPLE DUPLICATE: 1610817

| Parameter                 | Units | 92276240007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether         | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                   | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene               | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Formate        | ug/L  | ND                 | ND         |     | 30      |            |
| Toluene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Xylene (Total)            | ug/L  | ND                 | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 123                | 122        | 0   |         |            |
| 4-Bromofluorobenzene (S)  | %     | 112                | 115        | 2   |         |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop

Pace Project No.: 92276240

SAMPLE DUPLICATE: 1610817

| Parameter      | Units | 92276240007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|----------------|-------|-----------------------|---------------|-----|------------|------------|
| Toluene-d8 (S) | %     | 110                   | 108           | 1   |            |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: MSV/34372      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276240010, 92276240012, 92276240014, 92276240015, 92276240016, 92276240017, 92276240018, 92276240019, 92276240020, 92276240021, 92276240022, 92276240023, 92276240024, 92276240025, 92276240026, 92276240027, 92276240030, 92276240037, 92276240038

METHOD BLANK: 1612081      Matrix: Water  
Associated Lab Samples: 92276240010, 92276240012, 92276240014, 92276240015, 92276240016, 92276240017, 92276240018, 92276240019, 92276240020, 92276240021, 92276240022, 92276240023, 92276240024, 92276240025, 92276240026, 92276240027, 92276240030, 92276240037, 92276240038

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/21/15 13:59 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/21/15 13:59 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/21/15 13:59 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/21/15 13:59 |            |
| Ethanol                   | ug/L  | 215          | 200             | 138  | 11/21/15 13:59 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/21/15 13:59 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/21/15 13:59 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/21/15 13:59 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/21/15 13:59 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/21/15 13:59 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/21/15 13:59 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/21/15 13:59 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/21/15 13:59 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/21/15 13:59 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/21/15 13:59 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102          | 70-130          |      | 11/21/15 13:59 |            |
| 4-Bromofluorobenzene (S)  | %     | 102          | 70-130          |      | 11/21/15 13:59 |            |
| Toluene-d8 (S)            | %     | 106          | 70-130          |      | 11/21/15 13:59 |            |

LABORATORY CONTROL SAMPLE: 1612082

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50          | 44.0       | 88        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000        | 1240       | 124       | 70-130       |            |
| Benzene                 | ug/L  | 50          | 50.3       | 101       | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50          | 53.6       | 107       | 70-130       |            |
| Ethanol                 | ug/L  | 2000        | 2500       | 125       | 70-130       |            |
| Ethyl-tert-butyl ether  | ug/L  | 100         | 107        | 107       | 70-130       |            |
| Ethylbenzene            | ug/L  | 50          | 46.8       | 94        | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50          | 53.8       | 108       | 70-130       |            |
| Naphthalene             | ug/L  | 50          | 50.8       | 102       | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000        | 1040       | 104       | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100         | 104        | 104       | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500         | 591        | 118       | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400         | 436        | 109       | 70-130       |            |
| Toluene                 | ug/L  | 50          | 45.2       | 90        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

LABORATORY CONTROL SAMPLE: 1612082

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Xylene (Total)            | ug/L  | 150         | 140        | 94        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 102       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 98        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 96        | 70-130       |            |

MATRIX SPIKE SAMPLE: 1612083

| Parameter                 | Units | 92276240015 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20          | 18.1      | 90       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400         | 339       | 85       | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20          | 21.5      | 108      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20          | 18.5      | 93       | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800         | 802       | 98       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40          | 36.3      | 91       | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20          | 19.5      | 97       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20          | 22.8      | 114      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20          | 18.8      | 94       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400         | 373       | 93       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40          | 36.0      | 90       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200         | 271       | 135      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20          | 19.1      | 96       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 105      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 99       | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 99       | 70-130       |            |

SAMPLE DUPLICATE: 1612084

| Parameter               | Units | 92276240016 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane      | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                 | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether       | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                 | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether  | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene            | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene             | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol       | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether   | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Alcohol      | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Formate      | ug/L  | ND                 | ND         |     | 30      |            |
| Toluene                 | ug/L  | ND                 | ND         |     | 30      |            |
| Xylene (Total)          | ug/L  | ND                 | ND         |     | 30      |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop

Pace Project No.: 92276240

SAMPLE DUPLICATE: 1612084

| Parameter                 | Units | 92276240016<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,2-Dichloroethane-d4 (S) | %     | 101                   | 101           | 0   |            |            |
| 4-Bromofluorobenzene (S)  | %     | 101                   | 103           | 2   |            |            |
| Toluene-d8 (S)            | %     | 109                   | 111           | 2   |            |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: MSV/34373 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276240005, 92276240013, 92276240028, 92276240029, 92276240033, 92276240034, 92276240035, 92276240036

METHOD BLANK: 1612095 Matrix: Water  
Associated Lab Samples: 92276240005, 92276240013, 92276240028, 92276240029, 92276240033, 92276240034, 92276240035, 92276240036

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/22/15 01:03 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/22/15 01:03 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/22/15 01:03 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/22/15 01:03 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/22/15 01:03 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/22/15 01:03 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/22/15 01:03 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/22/15 01:03 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/22/15 01:03 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/22/15 01:03 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/22/15 01:03 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/22/15 01:03 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/22/15 01:03 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/22/15 01:03 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/22/15 01:03 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 103          | 70-130          |      | 11/22/15 01:03 |            |
| 4-Bromofluorobenzene (S)  | %     | 104          | 70-130          |      | 11/22/15 01:03 |            |
| Toluene-d8 (S)            | %     | 109          | 70-130          |      | 11/22/15 01:03 |            |

LABORATORY CONTROL SAMPLE: 1612096

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 43.6       | 87        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1230       | 123       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 52.4       | 105       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 51.9       | 104       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2120       | 106       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 103        | 103       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 49.9       | 100       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 56.1       | 112       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 50.1       | 100       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 992        | 99        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 105        | 105       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 597        | 119       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 383        | 96        | 70-130       |            |
| Toluene                   | ug/L  | 50          | 46.9       | 94        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 151        | 100       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 99        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

LABORATORY CONTROL SAMPLE: 1612096

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 96        | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 97        | 70-130       |            |

MATRIX SPIKE SAMPLE: 1612097

| Parameter                 | Units | 92276240029 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20          | 19.6      | 95       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400         | 459       | 114      | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20          | 22.9      | 115      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20          | 19.5      | 98       | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800         | 1180      | 148      | 70-130       | M1         |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40          | 37.6      | 94       | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20          | 21.4      | 107      | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20          | 22.4      | 112      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20          | 21.4      | 106      | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400         | 426       | 106      | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40          | 37.7      | 94       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200         | 323       | 162      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20          | 20.6      | 103      | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 107      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 98       | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 99       | 70-130       |            |

SAMPLE DUPLICATE: 1612098

| Parameter                 | Units | 92276283008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether         | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                   | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether   | ug/L  | 9.5                | 9.6        | 1   | 30      |            |
| Naphthalene               | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Butyl Formate        | ug/L  | ND                 | ND         |     | 30      |            |
| Toluene                   | ug/L  | ND                 | ND         |     | 30      |            |
| Xylene (Total)            | ug/L  | ND                 | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102                | 104        | 3   |         |            |
| 4-Bromofluorobenzene (S)  | %     | 103                | 102        | 0   |         |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop

Pace Project No.: 92276240

SAMPLE DUPLICATE: 1612098

| Parameter      | Units | 92276283008<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|----------------|-------|-----------------------|---------------|-----|------------|------------|
| Toluene-d8 (S) | %     | 107                   | 109           | 2   |            |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: MSV/34395 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92276240031, 92276240032

METHOD BLANK: 1613136 Matrix: Water  
Associated Lab Samples: 92276240031, 92276240032

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 11/23/15 13:07 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 11/23/15 13:07 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 11/23/15 13:07 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 11/23/15 13:07 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 11/23/15 13:07 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 11/23/15 13:07 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 11/23/15 13:07 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 11/23/15 13:07 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 11/23/15 13:07 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 11/23/15 13:07 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 11/23/15 13:07 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 11/23/15 13:07 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 11/23/15 13:07 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 11/23/15 13:07 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 11/23/15 13:07 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 113          | 70-130          |      | 11/23/15 13:07 |            |
| 4-Bromofluorobenzene (S)  | %     | 105          | 70-130          |      | 11/23/15 13:07 |            |
| Toluene-d8 (S)            | %     | 110          | 70-130          |      | 11/23/15 13:07 |            |

LABORATORY CONTROL SAMPLE: 1613137

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 46.4       | 93        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1040       | 104       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 54.3       | 109       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 53.0       | 106       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2290       | 114       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 105        | 105       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 50.1       | 100       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 62.0       | 124       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 45.9       | 92        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 938        | 94        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 105        | 105       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 579        | 116       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 319        | 80        | 70-130       |            |
| Toluene                   | ug/L  | 50          | 48.5       | 97        | 70-130       |            |
| Xylene (Total)            | ug/L  | 150         | 151        | 101       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 105       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 100       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: OEXT/39142 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276240001, 92276240002, 92276240003, 92276240004, 92276240005, 92276240006, 92276240008, 92276240009, 92276240010, 92276240011, 92276240012, 92276240013, 92276240014, 92276240015

METHOD BLANK: 1609495 Matrix: Water  
Associated Lab Samples: 92276240001, 92276240002, 92276240003, 92276240004, 92276240005, 92276240006, 92276240008, 92276240009, 92276240010, 92276240011, 92276240012, 92276240013, 92276240014, 92276240015

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 11/19/15 05:08 |            |
| 1-Chloro-2-bromopropane (S) | %     | 109          | 60-140          |       | 11/19/15 05:08 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1609496

1609497

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.32       | 0.32        | 112       | 112        | 60-140       | 0   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 102       | 103        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1609498

1609499

| Parameter                   | Units | 92276238012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | .28            | .28             | 0.32      | 0.32       | 112      | 112       | 60-140       | 0   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 104      | 105       | 60-140       |     |         |      |

SAMPLE DUPLICATE: 1609501

| Parameter                   | Units | 92276238013 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 96                 | 94         | 1   |         |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

|                         |  |                       |                   |
|-------------------------|--|-----------------------|-------------------|
| QC Batch:               | OEXT/39144   | Analysis Method:      | EPA 8011          |
| QC Batch Method:        | EPA 8011   | Analysis Description: | GCS 8011 EDB DBCP |
| Associated Lab Samples: | 92276240016, 92276240017, 92276240018, 92276240019, 92276240020, 92276240021, 92276240022, 92276240023, 92276240024, 92276240025, 92276240026, 92276240027, 92276240028, 92276240029, 92276240030, 92276240031, 92276240032, 92276240033, 92276240034, 92276240035 |                       |                   |

|                         |  |         |       |
|-------------------------|--|---------|-------|
| METHOD BLANK:           | 1609531  | Matrix: | Water |
| Associated Lab Samples: | 92276240016, 92276240017, 92276240018, 92276240019, 92276240020, 92276240021, 92276240022, 92276240023, 92276240024, 92276240025, 92276240026, 92276240027, 92276240028, 92276240029, 92276240030, 92276240031, 92276240032, 92276240033, 92276240034, 92276240035 |         |       |

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 11/19/15 14:46 |            |
| 1-Chloro-2-bromopropane (S) | %     | 105          | 60-140          |       | 11/19/15 14:46 |            |

| LABORATORY CONTROL SAMPLE & LCSD: |       | 1609532     | 1609533    |             |           |            |              |     |         |            |
|-----------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                         | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,2-Dibromoethane (EDB)           | ug/L  | .28         | 0.29       | 0.30        | 102       | 106        | 60-140       | 6   | 20      |            |
| 1-Chloro-2-bromopropane (S)       | %     |             |            |             | 96        | 95         | 60-140       |     |         |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: |       | 1609534            | 1609535        |                 |           |            |          |           |              |     |         |      |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter                              | Units | 92276240017 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| 1,2-Dibromoethane (EDB)                | ug/L  | ND                 | .28            | .28             | 0.31      | 0.32       | 112      | 114       | 60-140       | 2   | 20      |      |
| 1-Chloro-2-bromopropane (S)            | %     |                    |                |                 |           |            | 102      | 104       | 60-140       |     |         |      |

| SAMPLE DUPLICATE:           |       | 1609536            | 92276240035 | Dup Result | RPD     | Max RPD    | Qualifiers |
|-----------------------------|-------|--------------------|-------------|------------|---------|------------|------------|
| Parameter                   | Units | 92276240035 Result | Dup Result  | RPD        | Max RPD | Qualifiers |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 3.4                | 5.0         | 38         | 20      | D6         |            |
| 1-Chloro-2-bromopropane (S) | %     | 0                  | 0           |            |         | S4         |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

QC Batch: OEXT/39173 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276240036, 92276240037

METHOD BLANK: 1610649 Matrix: Water  
Associated Lab Samples: 92276240036, 92276240037

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.019           | 0.019 | 11/19/15 23:48 |            |
| 1-Chloro-2-bromopropane (S) | %     | 95           | 60-140          |       | 11/19/15 23:48 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1610650

| Parameter                   | Units | 1610650     |            | 1610651     |           | % Rec Limits | RPD    | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|--------------|--------|---------|------------|
|                             |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec |              |        |         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.30       | 0.28        | 106       | 102          | 60-140 | 6       | 20         |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 95        | 98           | 60-140 |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1610652 1610653

| Parameter                   | Units | 92276154027    |                 | 1610652   |            | 1610653  |           | % Rec Limits | RPD    | Max RPD | Qual |
|-----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
|                             |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |              |        |         |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND             | .28             | .28       | 0.30       | 0.29     | 108       | 106          | 60-140 | 2       | 20   |
| 1-Chloro-2-bromopropane (S) | %     |                |                 |           |            |          | 100       | 99           | 60-140 |         |      |

SAMPLE DUPLICATE: 1610654

| Parameter                   | Units | 92276154029 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 101                | 103        | 3   |         |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop  
Pace Project No.: 92276240

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QC Batch: OEXT/39249                      Analysis Method: EPA 8011  
QC Batch Method: EPA 8011                Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92276240007

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METHOD BLANK: 1612839                      Matrix: Water  
Associated Lab Samples: 92276240007

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 11/23/15 12:33 |            |
| 1-Chloro-2-bromopropane (S) | %     | 98           | 60-140          |       | 11/23/15 12:33 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1612840

| Parameter                   | Units | 1612840     |            | 1612841     |           | % Rec Limits | RPD    | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|--------------|--------|---------|------------|
|                             |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec |              |        |         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | .29         | 0.26       | 0.27        | 90        | 94           | 60-140 | 4       | 20         |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 100       | 98           | 60-140 |         |            |

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## QUALIFIERS

Project: 378 Truck Stop  
Pace Project No.: 92276240

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Lab ID      | Sample ID    | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|------------|-------------------|------------------|
| 92276240001 | 07960 - TW2  | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240002 | 07960 - TW3  | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240003 | 07960 - TW9  | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240004 | 07960 - FB1  | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240005 | 07960 - MW16 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240006 | 07960 - MW17 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240007 | 07960 - MW19 | EPA 8011        | OEXT/39249 | EPA 8011          | GCSV/23292       |
| 92276240008 | 07960 - MW23 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240009 | 07960 - MW25 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240010 | 07960 - MW31 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240011 | 07960 - TW7  | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240012 | 07960 - TW8  | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240013 | 07960 - DUP1 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240014 | 07960 - MW24 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240015 | 07960 - MW26 | EPA 8011        | OEXT/39142 | EPA 8011          | GCSV/23258       |
| 92276240016 | 07960 - TW6  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240017 | 07960 - FB2  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240018 | 07960 - MW2  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240019 | 07960 - MW4  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240020 | 07960 - MW5  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240021 | 07960 - MW6  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240022 | 07960 - MW8  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240023 | 07960 - MW9  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240024 | 07960 - MW10 | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240025 | 07960 - MW20 | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240026 | 07960 - MW21 | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240027 | 07960 - MW27 | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240028 | 07960 - MW29 | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240029 | 07960 - TW4  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240030 | 07960 - FB3  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240031 | 07960 - RW1  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240032 | 07960 - MW1  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240033 | 07960 - TW1  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240034 | 07960 - MW3  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240035 | 07960 - MW7  | EPA 8011        | OEXT/39144 | EPA 8011          | GCSV/23259       |
| 92276240036 | 07960 - DUP3 | EPA 8011        | OEXT/39173 | EPA 8011          | GCSV/23271       |
| 92276240037 | 07960 - FB4  | EPA 8011        | OEXT/39173 | EPA 8011          | GCSV/23271       |
| 92276240001 | 07960 - TW2  | EPA 8260        | MSV/34358  |                   |                  |
| 92276240002 | 07960 - TW3  | EPA 8260        | MSV/34358  |                   |                  |
| 92276240003 | 07960 - TW9  | EPA 8260        | MSV/34358  |                   |                  |
| 92276240004 | 07960 - FB1  | EPA 8260        | MSV/34357  |                   |                  |
| 92276240005 | 07960 - MW16 | EPA 8260        | MSV/34373  |                   |                  |
| 92276240006 | 07960 - MW17 | EPA 8260        | MSV/34358  |                   |                  |
| 92276240007 | 07960 - MW19 | EPA 8260        | MSV/34358  |                   |                  |
| 92276240008 | 07960 - MW23 | EPA 8260        | MSV/34358  |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop  
Pace Project No.: 92276240

| Lab ID      | Sample ID    | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|-----------|-------------------|------------------|
| 92276240009 | 07960 - MW25 | EPA 8260        | MSV/34358 |                   |                  |
| 92276240010 | 07960 - MW31 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240011 | 07960 - TW7  | EPA 8260        | MSV/34358 |                   |                  |
| 92276240012 | 07960 - TW8  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240013 | 07960 - DUP1 | EPA 8260        | MSV/34373 |                   |                  |
| 92276240014 | 07960 - MW24 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240015 | 07960 - MW26 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240016 | 07960 - TW6  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240017 | 07960 - FB2  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240018 | 07960 - MW2  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240019 | 07960 - MW4  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240020 | 07960 - MW5  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240021 | 07960 - MW6  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240022 | 07960 - MW8  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240023 | 07960 - MW9  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240024 | 07960 - MW10 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240025 | 07960 - MW20 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240026 | 07960 - MW21 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240027 | 07960 - MW27 | EPA 8260        | MSV/34372 |                   |                  |
| 92276240028 | 07960 - MW29 | EPA 8260        | MSV/34373 |                   |                  |
| 92276240029 | 07960 - TW4  | EPA 8260        | MSV/34373 |                   |                  |
| 92276240030 | 07960 - FB3  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240031 | 07960 - RW1  | EPA 8260        | MSV/34395 |                   |                  |
| 92276240032 | 07960 - MW1  | EPA 8260        | MSV/34395 |                   |                  |
| 92276240033 | 07960 - TW1  | EPA 8260        | MSV/34373 |                   |                  |
| 92276240034 | 07960 - MW3  | EPA 8260        | MSV/34373 |                   |                  |
| 92276240035 | 07960 - MW7  | EPA 8260        | MSV/34373 |                   |                  |
| 92276240036 | 07960 - DUP3 | EPA 8260        | MSV/34373 |                   |                  |
| 92276240037 | 07960 - FB4  | EPA 8260        | MSV/34372 |                   |                  |
| 92276240038 | TRIP BLANK   | EPA 8260        | MSV/34372 |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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Client Name: ECS

\* Page 2 of 2 is for Internal Use Only

Courier:  Fed Ex  UP  USP  Clier  Commercial  Pace  Other \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

|                 |
|-----------------|
| Optional        |
| Proj. Due Date: |
| Proj. Name:     |

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun T1402 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Temp Correction Factor T1402 No Correction

Corrected Cooler Temp.: 4.5 °C Biological Tissue is Frozen: Yes No  N/A

|   |
|---|
| Date and Initials of person examining contents: <u>JJ 10-16</u> |
|---|

| Temp should be above freezing to 6°C   |  | Comments: |
|--|--|-----------|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.        |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.        |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.        |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.        |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.        |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.        |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.        |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.        |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.        |
| -Pace Containers Used:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |           |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.       |
| Filtered volume received for Dissolved tests   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11.       |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.       |
| -Includes date/time/ID/Analysis Matrix: <u>wt</u>  |  |           |
| All containers needing preservation have been checked.                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.       |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |           |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |           |
| Samples checked for dechlorination:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.       |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.       |
| Trip Blank Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 16.       |
| Trip Blank Custody Seals Present   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |           |
| Pace Trip Blank Lot # (if purchased):  |  |           |

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

SCURF Review: LF Date: 11/16/15  
 SRF Review: D Date: 11/16

WO#: 92276240



Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: Company: ECS  
**Section B** Required Project Information: Report To: Noelle Fience  
**Section C** Invoice Information: Attention: Accounting  
 Address: 13504 South Bay Blvd  
 Company Name: Accounting  
 Address: ON EYE  
 Pace Quote Reference: Taylor Ezell  
 Pace Project Manager: 9915-3  
 Pace Profile #:  
 REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER  
 NPDES  GROUND WATER  DRINKING WATER  
 JUST  RORA  OTHER  
 Site Location STATE: SC  
 Page: 1 of 4  
1999948

Address: 13504 South Bay Blvd Copy To: Noelle Fience  
 Email To: Affence@ecsconsult.com Purchase Order No.: 14-219210  
 Phone: 7045832711 Fax: Project Name: 378 Truck stop  
 Requested Date/DAT: 5 DAY Project Number: 14-219210  
 Pace Profile #:

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX ID CODE | COLLECTED       |                    | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./Lab I.D. |
|--------|--|--------------------------------|-----------------|--------------------|------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----------------------------------|-------------------------|---------------------------|
|        |  |                                | COMPOSITE START | COMPOSITE END/GRAB |      |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol |               |                                   |                         |                           |
| 1      | 079600-TW2                               | 07G                            | 11/19           | 1513               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 001                     |                           |
| 2      | 079600-TW3                               | 07G                            | 11/19           | 1425               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 002                     |                           |
| 3      | 079600-TW9                               | 07G                            | 11/19           | 1703               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 003                     |                           |
| 4      | 079600-FB2                               | 07G                            | 11/19           | 1740               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 004                     |                           |
| 5      | 079600-MW16                              | 07G                            | 11/19           | 1430               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 005                     |                           |
| 6      | 079600-MW17                              | 07G                            | 11/19           | 0910               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 006                     |                           |
| 7      | 079600-MW19                              | 07G                            | 11/19           | 1225               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 007                     |                           |
| 8      | 079600-MW23                              | 07G                            | 11/19           | 1055               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 008                     |                           |
| 9      | 079600-MW25                              | 07G                            | 11/19           | 1325               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 009                     |                           |
| 10     | 079600-MW31                              | 07G                            | 11/19           | 1350               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 010                     |                           |
| 11     | 079600-TW7                               | 07G                            | 11/19           | 0830               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 011                     |                           |
| 12     | 079600-TW8                               | 07G                            | 11/19           | 1139               | 6    |      |                           |                 |               |                                |                  |     |      |   |          |               |                                   | 012                     |                           |

| ADDITIONAL COMMENTS | REINQUISHED BY / AFFILIATION | DATE     | TIME | ACCEPTED BY / AFFILIATION | DATE     | TIME | SAMPLE CONDITIONS |
|---------------------|------------------------------|----------|------|---------------------------|----------|------|-------------------|
| Report 5 values     | Brian Poy/ECS                | 11/13/15 | 1800 | ECS OFFICE/ECS            | 11/13/15 | 1800 |                   |
|                     | ECS OFFICE                   | 11-16-15 | 1800 | your polymer lab          | 11-16    | 1000 | 4.5 y             |
|                     |                              | 11-16-15 | 1000 |                           |          |      | 4.5 y             |

ORIGINAL

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Brian Poy  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 11/13/15

Temp in °C  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|   |  |  |                                       |
|---|--|--|---------------------------------------|
| <b>Section A</b><br>Required Client Information:<br>Company: <u>ECS</u><br>Address: <u>13504 South Raint Blvd</u><br>Charlotte, NC<br>Email To: <u>afrence@ecsconsult.com</u><br>Phone: <u>704 583 2711</u> Fax:<br>Requested Due Date/TAT: <u>Standard 5 DAY</u> | <b>Section B</b><br>Reported Project Information:<br>Report To: <u>Nelle France</u><br>Copy To:<br>Purchase Order No.: <u>14-214210</u><br>Project Name: <u>378 Track Stop</u><br>Project Number: <u>14-214210</u> | <b>Section C</b><br>Invoice Information:<br>Attention: <u>Accounting</u><br>Company Name: <u>ECS</u><br>Address: <u>ON File</u><br>Pace Quote Reference: <u>Taylor Ewell</u><br>Pace Project Manager:<br>Pace Profile #: | Page: <u>2</u> of <u>4</u><br>1998912 |
|---|--|--|---------------------------------------|

|  |                                |
|--|--------------------------------|
| <b>REGULATORY AGENCY</b><br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER | Site Location STATE: <u>SC</u> |
|--|--------------------------------|

| ITEM # | Section D<br>Required Client Information<br>Matrix Codes<br>MATRIX / CODE<br>Drinking Water DW<br>Water WT<br>Waste Water WW<br>Product P<br>Soil/Solid SL<br>Oil OL<br>Wipe WIP<br>Air AR<br>Tissue TS<br>Other OT | Matrix Code (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED       |                    | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./Lab I.D. |
|--------|---|---------------------------------------|-----------------------------|-----------------|--------------------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|---------------------------|
|        |   |                                       |                             | COMPOSITE START | COMPOSITE END/GRAB |                           |                 |               |               |                                   |                         |                           |
| 1      | 07960-DUP2  | WTG                                   |                             | 11/10           |                    |                           | 6               |               | 8260          |                                   |                         | 013                       |
| 2      | 07960-MW24  |                                       |                             | 14/10           |                    |                           |                 |               | 8011          |                                   |                         | 014                       |
| 3      | 07960-MW24  |                                       |                             | 15/10           |                    |                           |                 |               |               |                                   |                         | 015                       |
| 4      | 07960-TW4   |                                       |                             | 15/10           |                    |                           |                 |               |               |                                   |                         | 016                       |
| 5      | 07960-FB2   |                                       |                             | 16/10           |                    |                           |                 |               |               |                                   |                         | 017                       |
| 6      | 07960-MW2   |                                       |                             | 16/13           |                    |                           |                 |               |               |                                   |                         | 018                       |
| 7      | 07960-MW4   |                                       |                             | 11/11           |                    |                           |                 |               |               |                                   |                         | 019                       |
| 8      | 07960-MW5   |                                       |                             | 13/05           |                    |                           |                 |               |               |                                   |                         | 020                       |
| 9      | 07960-MW6   |                                       |                             | 11/10           |                    |                           |                 |               |               |                                   |                         | 021                       |
| 10     | 07960-MW8   |                                       |                             | 13/09           |                    |                           |                 |               |               |                                   |                         | 022                       |
| 11     | 07960-MW9   |                                       |                             | 07/10           |                    |                           |                 |               |               |                                   |                         | 023                       |
| 12     | 07960-MW10  |                                       |                             | 08/13           |                    |                           |                 |               |               |                                   |                         | 024                       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE     | TIME | ACCEPTED BY / AFFILIATION | DATE       | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------------|------|-------------------|
| Report Values       | Brian Peay/ECS                | 11/13/15 | 1800 | ECS OFFICE/ECS            | 11/13/15   | 1800 |                   |
|                     | ECS ASK/Peay                  | 11/15    | 0838 | Peay                      | 11/15/0538 |      |                   |
|                     | Peay                          | 11/16/15 | 1200 | Peay                      | 11/16/1000 |      |                   |

|  |   |
|--|---|
| <b>SAMPLER NAME AND SIGNATURE</b>        |   |
| PRINT Name of SAMPLER: <u>Brian Peay</u> | DATE Signed (MM/DD/YY): <u>11/13/15</u> |
| SIGNATURE of SAMPLER: <u>[Signature]</u> |   |
| Temp in °C                               | Received on Ice (Y/N)                   |
|  | Custody Sealed Cooler (Y/N)             |
|  | Samples Intact (Y/N)                    |

**Section A** Required Client Information: Company: **ECS** Address: **13504 S Runt Blvd** City: **Wylie** State: **NC** Zip: **27583**

**Section B** Required Project Information: Report To: **Wylie Fence** Project Name: **978 Track Stop** Project Number: **14-214210**

**Section C** Invoice Information: Attention: **Accounting** Company Name: **ECS** Address: **ON File** Reference: **Taylor E2011**

**Section D** Required Client Information: Matrix Codes: Drinking Water (DW), Waste Water (WT), Product (P), Soil/Solid (S), Oil (O), Wipe (W), Air (A), Tissue (T), Other (OT). Matrix Code: **DW**. Sample ID: **92076240**. (A-Z, 0-9 / . -)

| ITEM # | SAMPLE ID    | MATRIX CODE | SAMPLE TYPE | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--------------|-------------|-------------|-----------|------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|----------------------------|
|        |              |             |             | DATE      | TIME |                           |                 |               |               |                                   |                         |                            |
| 1      | 07960 - MW12 | DW          | G           | 11/13/15  | 1800 | 18.00                     | 0               |               | X             |                                   |                         | 025                        |
| 2      | 07960 - MW20 | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 026                        |
| 3      | 07960 - MW21 | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 027                        |
| 4      | 07960 - MW27 | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 028                        |
| 5      | 07960 - MW29 | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 029                        |
| 6      | 07960 - TW4  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 030                        |
| 7      | 07960 - FB3  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 031                        |
| 8      | 07960 - RW1  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 032                        |
| 9      | 07960 - MW1  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 033                        |
| 10     | 07960 - TW1  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 034                        |
| 11     | 07960 - MW3  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 035                        |
| 12     | 07960 - MW7  | DW          | G           | 11/16/15  | 0800 | 8.00                      | 0               |               | X             |                                   |                         | 035                        |

ADDITIONAL COMMENTS: **Report J values**

RELINQUISHED BY / AFFILIATION: **Brian Peay/ECS**

DATE: **11/13/15** TIME: **1800**

ACCEPTED BY / AFFILIATION: **ECS Office/ECS**

DATE: **11/13/15** TIME: **1800**

SAMPLE CONDITIONS: **Temp in °C: 95**

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: **Brian Peay**  
SIGNATURE OF SAMPLER: *[Signature]*  
DATE Signed (MM/DD/YY): **11/13/15**

Received on Ice (Y/N): **Y**  
Custody Sealed Cooler (Y/N): **Y**  
Samples Intact (Y/N): **Y**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: ECS  
Address: 13504-South Pt Blvd  
Charlotte, NC  
Email To: ntance@ecsonst.com  
Phone: 7553 2711 Fax:  
Requested Due Date: Standard 5 Day

**Section B**  
Required Project Information:

Report To: Nelle Freese  
Copy To:  
Purchase Order No.: 14-214210  
Project Name: 378 Truck Stop  
Project Number: 14-214210

**Section C**  
Invoice Information:

Attention: Accounting  
Company Name: ECS  
Address: DU FILE  
Pace Quote Reference: Taylor Ezell  
Pace Project Manager:  
Pace Profile #:

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 JUST  RORA  OTHER  
Site Location STATE: SC

Page: 4 of 4  
1998946

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED       |                    | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives                  |                  | Analysis Test ↓ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|-------------------------------|---------------------------------------|-----------------------------|-----------------|--------------------|---------------------------|-----------------|--------------------------------|------------------|-----------------|-----------------------------------|-------------------------|----------------------------|
|        |  |                               |                                       |                             | COMPOSITE START | COMPOSITE END/GRAB |                           |                 | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> |                 |                                   |                         |                            |
| 1      | 07960-DWP3                               |                               | WT 6                                  |                             |                 | 11/3               | 6                         |                 |                                |                  | 8260            |                                   |                         | 92076240                   |
| 2      | 07960-FB4                                |                               |                                       |                             |                 |                    | 2                         |                 |                                |                  | 8011            |                                   |                         | 636                        |
| 3      | Fip Blank                                |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         | 037                        |
| 4      |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         | 038                        |
| 5      |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 6      |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 7      |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 8      |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 9      |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 10     |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 11     |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |
| 12     |  |                               |                                       |                             |                 |                    |                           |                 |                                |                  |                 |                                   |                         |                            |

**ADDITIONAL COMMENTS**  
Report 5 values

**RELINQUISHED BY / AFFILIATION**  
Brian Peay / ECS

**DATE**  
11/13/15

**TIME**  
1800

**ACCEPTED BY / AFFILIATION**  
ECS Office / ECS

**DATE**  
11/13/15

**TIME**  
1800

**SAMPLE CONDITIONS**  
Temp in °C: 4.5  
Received on Ice (Y/N): Y  
Custody Sealed Cooler (Y/N): Y  
Samples Intact (Y/N): Y

ORIGINAL

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Brian Peay  
SIGNATURE of SAMPLER: Brian Peay

DATE Signed (MM/DD/YY): 11/13/15

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



| Sample ID   | Constituent of Concern | Benzene | Toluene | Ethylbenzene | Xylene (Total) | Methyl-tert-butyl ether | Naphthalene | 1,2-Dibromethane (EDB) | 1,2-Dichloroethane | tert-Amyl Alcohol | tert-Amylmethyl ether | tert-Butyl Alcohol | tert-Butyl Formate |
|-------------|------------------------|---------|---------|--------------|----------------|-------------------------|-------------|------------------------|--------------------|-------------------|-----------------------|--------------------|--------------------|
| 07960 - FB1 | 11/09/2015             | <5.0    | <5.0    | <5.0         | <10.0          | <5.0                    | <5.0        | <0.019                 | <5.0               | <100              | <10.0                 | <100               | <50.0              |
| 07960 - FB2 | 11/10/2015             | <5.0    | <5.0    | <5.0         | <10.0          | <5.0                    | <5.0        | <0.020                 | <5.0               | <100              | <10.0                 | <100               | <50.0              |
| 07960 - FB3 | 11/11/2015             | <5.0    | <5.0    | <5.0         | <10.0          | <5.0                    | <5.0        | <0.019                 | <5.0               | <100              | <10.0                 | <100               | <50.0              |
| 07960 - FB4 | 11/13/2015             | <5.0    | <5.0    | <5.0         | <10.0          | <5.0                    | <5.0        | <0.020                 | <5.0               | <100              | <10.0                 | <100               | <50.0              |
| TRIP BLANK  | 11/13/2015             | <5.0    | <5.0    |              | <10.0          | <5.0                    | <5.0        | N/A                    | <5.0               | <100              | <10.0                 | <100               | <50.0              |
| TRIP BLANK  | 11/11/2015             | <5.0    | <5.0    | <5.0         | <10.0          | <5.0                    | <5.0        | N/A                    | <5.0               | <100              | <10.0                 | <100               | <50.0              |

| Sample ID                                  | Constituent of Concern | Benzene      | Toluene   | Ethylbenzene | Xylene (Total) | Methyl-tert-butyl ether | Naphthalene  | 1,2-Dibromethane (EDB) | 1,2-Dichloroethane | tert-Amyl Alcohol | tert-Amylmethyl ether | tert-Butyl Alcohol | tert-Butyl Formate |
|--|------------------------|--------------|-----------|--------------|----------------|-------------------------|--------------|------------------------|--------------------|-------------------|-----------------------|--------------------|--------------------|
| 07960 - MW31                               | 11/10/2015             | 200          | 10.0 J    | 35.6         | 27.4           | <12.5                   | 56.6         | <0.019                 | 40.3               | 827               | <25.0                 | <250               | <125               |
| 07960 - DUP1                               | 11/10/2015             | 183          | 10.6      | 39.4         | 41.0           | <5.0                    | 54.7         | <0.019                 | 40.1               | 728               | <10.0                 | 60.9 J             | <50.0              |
| <b>Relative Percent Difference</b>         |                        | <b>8.50%</b> | <b>NA</b> | <b>9.64%</b> | <b>33.17%</b>  | <b>NA</b>               | <b>3.36%</b> | <b>NA</b>              | <b>NA</b>          | <b>11.97%</b>     | <b>NA</b>             | <b>NA</b>          | <b>NA</b>          |
| <b>Average Relative Percent Difference</b> |                        |              |           |              |                |                         |              |                        |                    |                   |                       | <b>13.33%</b>      |                    |

|  |            |              |           |              |              |           |               |              |               |              |           |              |           |
|--|------------|--------------|-----------|--------------|--------------|-----------|---------------|--------------|---------------|--------------|-----------|--------------|-----------|
| 07960-MW12                                 | 11/11/2015 | 1200         | 62.2 J    | 97.8         | 190          | <62.5     | 134           | 0.16         | 150           | 2860         | <125      | 1230 J       | <625      |
| 07960-DUP2                                 | 11/11/2015 | 1260         | 58.9      | 93.1         | 182          | <50.0     | 115           | 0.15         | 125           | 3090         | <100      | 1260         | <500      |
| <b>Relative Percent Difference</b>         |            | <b>4.76%</b> | <b>NA</b> | <b>4.81%</b> | <b>4.21%</b> | <b>NA</b> | <b>14.18%</b> | <b>6.25%</b> | <b>16.67%</b> | <b>7.44%</b> | <b>NA</b> | <b>NA</b>    | <b>NA</b> |
| <b>Average Relative Percent Difference</b> |            |              |           |              |              |           |               |              |               |              |           | <b>8.33%</b> |           |

|  |            |              |           |              |              |           |              |           |              |              |           |              |           |
|--|------------|--------------|-----------|--------------|--------------|-----------|--------------|-----------|--------------|--------------|-----------|--------------|-----------|
| 07960 - MW3                                | 11/12/2015 | 6710         | 106 J     | 445          | 2770         | <250      | 360          | <0.019    | 511          | 12200        | <500      | <5000        | <2500     |
| 07960 - DUP3                               | 11/13/2015 | 7020         | 102 J     | 449          | 2780         | <125      | 376          | 0.55      | 484          | 11500        | <250      | 1780 J       | <1250     |
| <b>Relative Percent Difference</b>         |            | <b>4.42%</b> | <b>NA</b> | <b>0.89%</b> | <b>0.36%</b> | <b>NA</b> | <b>4.26%</b> | <b>NA</b> | <b>5.28%</b> | <b>5.74%</b> | <b>NA</b> | <b>NA</b>    | <b>NA</b> |
| <b>Average Relative Percent Difference</b> |            |              |           |              |              |           |              |           |              |              |           | <b>3.49%</b> |           |

**APPENDIX G**

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Disposal Manifest



# HAZ-MAT

ENVIRONMENTAL SERVICES  
P.O. BOX 37392 • CHARLOTTE, N.C. 28237  
(704) 332-5600  
FAX (704) 375-7183

Manifest No. 71510  
P.O. No. 14-214210  
Job No. \_\_\_\_\_

## NON-HAZARDOUS SPECIAL WASTE

|  |   |       |          |       |          |  |  |  |  |
|--|---|-------|----------|-------|----------|--|--|--|--|
| <b>Section I. GENERATOR</b> <small>(Generator complete all of Section I)</small> |   |       |          |       |          |  |  |  |  |
| <b>GENERATOR LOCATION</b>  | <b>WORK CONTRACTED BY</b>   |       |          |       |          |  |  |  |  |
| NAME <u>Wilkinson Fuel Company</u>   | Bill To (If different from information at left)   |       |          |       |          |  |  |  |  |
| ORIGINATING ADDRESS <u>731 Hwy 378, Rock Hill, SC</u>                            | NAME <u>ECB</u>   |       |          |       |          |  |  |  |  |
| MAILING ADDRESS <u>P.O. Box 2835</u>   | ADDRESS <u>13501 ...</u>  |       |          |       |          |  |  |  |  |
| CITY <u>Rock Hill</u> STATE <u>SC</u> ZIP <u>29132</u>                           | CITY <u>...</u> STATE <u>NC</u> ZIP _____   |       |          |       |          |  |  |  |  |
| PHONE NO. _____  | PHONE NO. <u>704 583-2711</u>   |       |          |       |          |  |  |  |  |
| CONTACT NAME <u>Mr. Frank Wilkinson</u>  | CONTACT NAME <u>...</u>   |       |          |       |          |  |  |  |  |
| DES. OF WASTE: <u>...</u>  | <table border="1" style="float:right"> <tr> <td>No.</td> <td>Type</td> <td>Units</td> <td>Quantity</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | No.   | Type     | Units | Quantity |  |  |  |  |
| No.  | Type  | Units | Quantity |       |          |  |  |  |  |
|  |   |       |          |       |          |  |  |  |  |

| Section II. INVOICE INFORMATION               | GALLONS  | DRUMS      |
|---|----------|------------|
| DESCRIPTION                                   | QUANTITY | LINE TOTAL |
| 1. PETROLEUM CONTACT WATER                    | 135      |            |
| 2. OFF-SPEC LIGHT OIL, DIESEL OR GAS          |          |            |
| 3. NON-HAZARDOUS LIQUIDS                      |          |            |
| 4. SEDIMENT OR SOLIDS                         |          |            |
| 5. 55-GALLON DRUM REMOVED - SOLID OR EMPTY    |          |            |
| 6. 55-GALLON DRUM REMOVED - LIQUID            |          |            |
| 7.  |          |            |
| 8.  |          |            |
| 9.  |          |            |
| 10. ARRIVAL TIME: _____ DEPARTURE TIME: _____ |          |            |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. Generator/Customer shall reimburse HAZ-MAT its reasonable expenses and charges for handling, analyzing, loading, preparing, transporting, storing or caring for nonconforming or off spec waste, including costs of decontamination and cleaning of equipment. Generator must notify HAZ-MAT of any changes to the waste stream prior to shipment.

Brian Paul agent of Wilkinson Fuel Co. [Signature] 11/16/15  
 Generator Authorized Agent Name Signature Shipment Date

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| <b>Section III. TRANSPORTER</b> <small>(Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)</small> |  |  |  |  |  |  |
| <b>HAZ-MAT ENVIRONMENTAL SERVICES</b>  |  |  |  |  |  |  |
| P.O. BOX 37392 • CHARLOTTE, N.C. 28237   |  |  |  |  |  |  |
| a. Driver Name/Title _____   | e. Name <u>Brian Paul</u>  |  |  |  |  |  |
| b. Phone No. _____ c. Truck No. _____  | f. Address <u>13501 ...</u>  |  |  |  |  |  |
| Hazardous Waste Transporter Permits<br>EPA NCR 000003186<br>EPA NCD048461370   | g. Driver Name/Title _____   |  |  |  |  |  |
| d. <table border="1" style="float:right"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> Driver Signature  |  |  |  |  |  | h. Phone No. _____ i. Truck No. <u>64113</u> |
|  |  |  |  |  |  |  |
|  | j. Transporter II Permit Nos. _____  |  |  |  |  |  |
|  | <u>[Signature]</u> <span style="float:right">11/16/15</span><br>Driver Signature Shipment Date |  |  |  |  |  |

|  |   |                 |                              |
|--|---|-----------------|------------------------------|
| <b>Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL</b>  |   |                 |                              |
| Site Name: <u>Haz-Mat Environmental Services</u>   | a. Phone No. <u>704-332-5600</u>          |                 |                              |
| Physical Address: <u>210 Dalton Avenue</u>   | b. Mailing Address: <u>P.O. Box 37392</u> |                 |                              |
| <u>Charlotte, N.C. 28206</u>   | <u>Charlotte, N.C. 28237</u>              |                 |                              |
| e. Discrepancy Indication Space  |   |                 |                              |
| This is to certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation, then into the CMUD sanitation sewer system under permit IUP#5012. (3) Sludges from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days. |   |                 |                              |
| SIGNATURE OF FACILITY AGENT <u>[Signature]</u>   | DATE                                      | MONTH <u>11</u> | DAY <u>16</u> YEAR <u>15</u> |

**APPENDIX K**

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Data Verification Checklist

## Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | ✓   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | ✓   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | ✓   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | ✓   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     |     |    | ✓   |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | ✓   |    |     |
| 7      | Has the facility history been summarized?  | ✓   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | ✓   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | ✓   |
| 10     | Has current use of the site and adjacent land been described?  | ✓   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   |     |    | ✓   |
| 12     | Has the primary soil type been described?  |     |    | ✓   |
| 13     | Have field screening results been described?   |     |    | ✓   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | ✓   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | ✓   |
| 16     | Has the monitoring well installation and development dates been provided?  |     |    | ✓   |
| 17     | Has the method of well development been detailed?  |     |    | ✓   |
| 18     | Has justification been provided for the locations of the monitoring wells?   |     |    | ✓   |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | ✓   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  | ✓   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | ✓   |    |     |
| 22     | Has the purging methodology been detailed?   | ✓   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | ✓   |    |     |
| 24     | If free-product is present, has the thickness been provided?   |     |    | ✓   |
| 25     | Does the report include a brief discussion of the assessment done and the results?   |     |    | ✓   |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | ✓   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | ✓   |

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | ✓   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | ✓   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | ✓   |
| 31     | Have recommendations for further action been provided and explained?   | ✓   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | ✓   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | ✓   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | ✓   |    |     |
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |     |    | ✓   |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |     |    | ✓   |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | ✓   |    |     |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | ✓   |    |     |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | ✓   |    |     |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | ✓   |    |     |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |     |    | ✓   |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |     |    | ✓   |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |     |    | ✓   |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | ✓   |    |     |
| 45     | Is the laboratory performing the analyses properly certified?  | ✓   |    |     |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |     |    | ✓   |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |     |    | ✓   |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   |     |    | ✓   |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |     |    | ✓   |
| 50     | Have the disposal manifests been provided? (Appendix G)  | ✓   |    |     |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |     |    | ✓   |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |     |    | ✓   |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  |     |    | ✓   |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | ✓   |    |     |

Explanation for missing and incomplete information?

\_\_\_\_\_

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Project Verifier (signature) DR Mazorra

(print name) David R. Mazorra, P.E.

Date 12/14/15

|   |                     |                 |  |       |       |  |    |                      |    |
|---|---------------------|-----------------|--|-------|-------|--|----|----------------------|----|
| <b>Domenico Model</b>   |                     |                 | <b>Transport Parameters</b>  |       |       | <b>Simulation Time</b>   |    |                      |    |
| UST # 07960<br>Site Name: 378 Truck Stop<br>Modeler: Matt Hetrick<br>Date: 12/31/2015   |                     |                 | $x_{max}$ <input type="text" value="197"/> ft<br>$y_{max}$ <input type="text" value="39.5"/> ft<br>$z$ <input type="text" value="0"/> ft<br>Source Width <input type="text" value="30"/> ft<br>Source Thickness <input type="text" value="15"/> ft |       |       | $t_{sim}$ <input type="text" value="41"/> yrs  |    |                      |    |
| <b>Groundwater Flow Parameters</b>  |                     |                 | Plume Length <input type="text" value="197"/> ft<br>$\alpha_x$ <input type="text" value="10.93041"/> ft<br>$\alpha_y$ <input type="text" value="1.093041"/> ft<br>$\alpha_z$ <input type="text" value="1.00E-99"/> ft                              |       |       | <b>Aquifer Characteristics</b>   |    |                      |    |
| $K$ <input type="text" value="70"/> ft/yr<br>$dh/dx$ <input type="text" value="0.1"/><br>$\theta$ <input type="text" value="0.25"/> dec. %<br>$v_x$ <input type="text" value="30"/> ft/yr |                     |                 |  |       |       | $\rho_d$ <input type="text" value="1.7"/> kg/L<br>$f_{oc}$ <input type="text" value="0.0002"/> |    |                      |    |
| <b>Source Area CoC Data</b>   |                     |                 | <b>Retarded Velocity (ft/yr)</b>   |       |       | <b>Simulation Points for Breakthrough Curves</b>   |    |                      |    |
| CoC   | $C_{source}$ (mg/L) | $K_{oc}$ (L/kg) | CoC  | R     | $v_R$ | $x$  | ft | $x$                  | ft |
| Benzene   | 8.69                | 81              | Benzene  | 1.110 | 27.02 | <input type="text"/>   | ft | <input type="text"/> | ft |
| Toluene   | 26.8                | 133             | Toluene  | 1.181 | 25.40 | <input type="text"/>   | ft | <input type="text"/> | ft |
| Ethylbenzene  | 1.98                | 176             | Ethylbenzene   | 1.239 | 24.21 | <input type="text"/>   | ft | <input type="text"/> | ft |
| Xylenes   | 17.7                | 639             | Xylenes  | 1.869 | 16.05 | <input type="text"/>   | ft | <input type="text"/> | ft |
| Naphthalene   | 1.26                | 1543            | Naphthalene  | 3.098 | 9.68  | <input type="text"/>   | ft | <input type="text"/> | ft |
| MtBE  | 1.25                | 11              | MtBE   | 1.015 | 29.56 |  |    |                      |    |
| EDB   | 0.031               | 28              | EDB  | 1.038 | 28.90 |  |    |                      |    |
| 1,2-DCA   |                     | 17.5            | 1,2-DCA  | 1.024 | 29.30 |  |    |                      |    |

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$

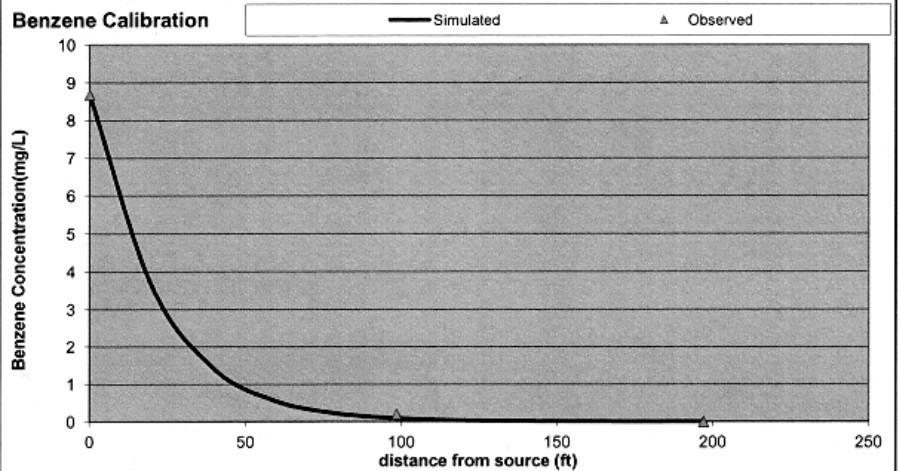
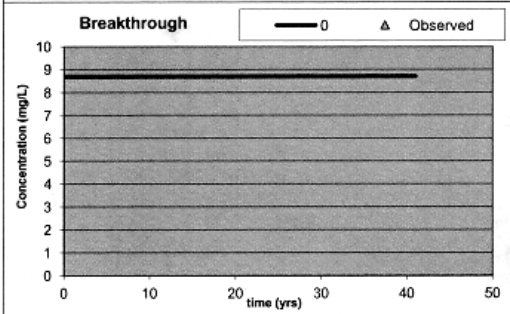
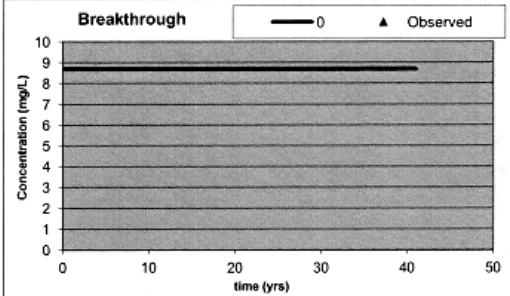




| Benzene Calibration                      |                         |                         |                           |                         |                         |                         |   |  |  |
|--|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|---|--|--|
| Spatial Calibration Data<br>(centerline) |                         |                         | Temporal Calibration Data |                         |                         |                         | Site ID 07960<br>Site Name 378 Truck Stop |  |  |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs)                   | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L)                   |  |  |
| 0  | 8.69                    | 8.69                    | 0                         |                         | 8.69                    |                         | 8.69                                      |  |  |
| 19.7                                     |                         | 3.667                   | 4.1                       |                         | 8.690                   |                         | 8.690                                     |  |  |
| 39.4                                     |                         | 1.447                   | 8.2                       |                         | 8.690                   |                         | 8.690                                     |  |  |
| 59.1                                     |                         | 0.568                   | 12.3                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 78.8                                     |                         | 0.225                   | 16.4                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 98.5                                     | 0.2                     | 0.090                   | 20.5                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 118.2                                    |                         | 0.036                   | 24.6                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 137.9                                    |                         | 0.015                   | 28.7                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 157.6                                    |                         | 0.006                   | 32.8                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 177.3                                    |                         | 0.002                   | 36.9                      |                         | 8.690                   |                         | 8.690                                     |  |  |
| 197                                      | 0.001                   | 0.001                   | 41                        |                         | 8.690                   |                         | 8.690                                     |  |  |

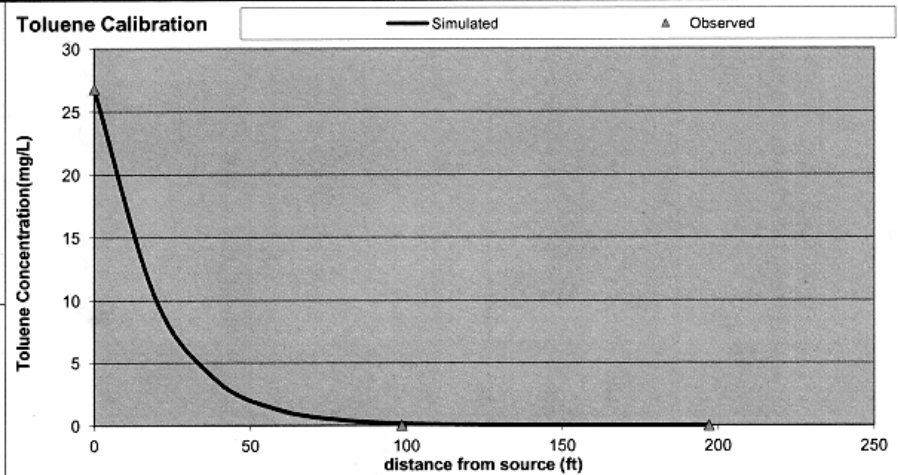
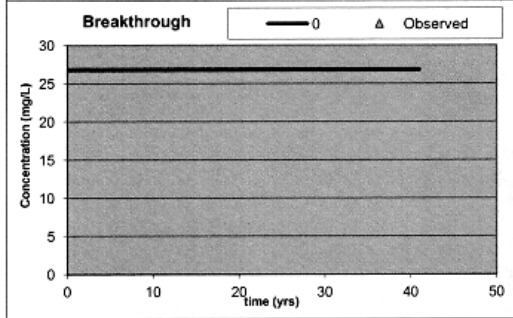
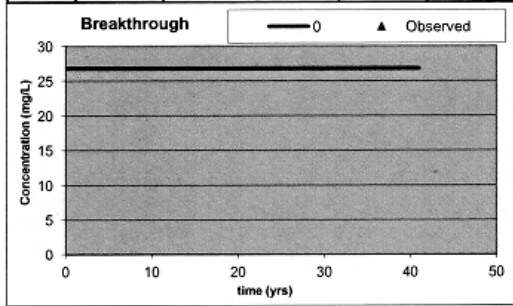
  

| Model Calibration Parameters |              |                               |
|------------------------------|--------------|-------------------------------|
| t <sub>1/2</sub>             | 0.41 yrs     | λ 1.69024 yr <sup>-1</sup>    |
| v <sub>x</sub>               | 30 ft/yr     |                               |
| R                            | 1.110        |                               |
| v <sub>R</sub>               | 27.023 ft/yr | C <sub>source</sub> 8.69 mg/L |
| L <sub>p</sub>               | 197 ft       | t <sub>sim</sub> 41 yrs       |
| α <sub>x</sub>               | 10.93041 ft  |                               |
| α <sub>y</sub>               | 1.093041 ft  |                               |
| α <sub>z</sub>               | 1E-99 ft     |                               |



| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 0.00035429 | 0.00671114 | 0.01086925 | 0.00933076 | 0.00616514 | 0.0035583 | 0.001896 | 0.000959 | 0.000469 | 0.000223 |
| 19.75  | 0.87976025 | 0.4924849  | 0.23529955 | 0.10689846 | 0.04736633 | 0.0206852 | 0.008952 | 0.003852 | 0.001651 | 0.000706 |
| 0      | 3.66669014 | 1.44680268 | 0.56786557 | 0.22512688 | 0.09018407 | 0.0364459 | 0.014835 | 0.006074 | 0.002499 | 0.001032 |
| 19.75  | 0.87976025 | 0.4924849  | 0.23529955 | 0.10689846 | 0.04736633 | 0.0206852 | 0.008952 | 0.003852 | 0.001651 | 0.000706 |
| 39.5   | 0.00035429 | 0.00671114 | 0.01086925 | 0.00933076 | 0.00616514 | 0.0035583 | 0.001896 | 0.000959 | 0.000469 | 0.000223 |

| Toluene Calibration                      |                         |                         |         |                           |                         |                         |                         | Site ID                      | 07960        |                     |                          |
|--|-------------------------|-------------------------|---------|---------------------------|-------------------------|-------------------------|-------------------------|------------------------------|--------------|---------------------|--------------------------|
| Spatial Calibration Data<br>(centerline) |                         |                         |         | Temporal Calibration Data |                         |                         |                         | Site Name                    |              | 378 Truck Stop      |                          |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs) | C <sub>obs</sub> (mg/L)   | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | Model Calibration Parameters |              |                     |                          |
| 0  | 26.8                    | 26.8                    | 0       |                           | 26.8                    |                         | 26.8                    | t <sub>1/2</sub>             | 0.37 yrs     | λ                   | 1.87297 yr <sup>-1</sup> |
| 19.7                                     |                         | 10.126                  | 4.1     |                           | 26.800                  |                         | 26.800                  | v <sub>x</sub>               | 30 ft/yr     |                     |                          |
| 39.4                                     |                         | 3.578                   | 8.2     |                           | 26.800                  |                         | 26.800                  | R                            | 1.181        |                     |                          |
| 59.1                                     |                         | 1.257                   | 12.3    |                           | 26.800                  |                         | 26.800                  | V <sub>R</sub>               | 25.405 ft/yr | C <sub>source</sub> | 26.8 mg/L                |
| 78.8                                     |                         | 0.446                   | 16.4    |                           | 26.800                  |                         | 26.800                  | L <sub>p</sub>               | 197 ft       | t <sub>sim</sub>    | 41 yrs                   |
| 98.5                                     | 0.01                    | 0.160                   | 20.5    |                           | 26.800                  |                         | 26.800                  | α <sub>x</sub>               | 10.93041 ft  |                     |                          |
| 118.2                                    |                         | 0.058                   | 24.6    |                           | 26.800                  |                         | 26.800                  | α <sub>y</sub>               | 1.093041 ft  |                     |                          |
| 137.9                                    |                         | 0.021                   | 28.7    |                           | 26.800                  |                         | 26.800                  | α <sub>z</sub>               | 1E-99 ft     |                     |                          |
| 157.6                                    |                         | 0.008                   | 32.8    |                           | 26.800                  |                         | 26.800                  |                              |              |                     |                          |
| 177.3                                    |                         | 0.003                   | 36.9    |                           | 26.800                  |                         | 26.800                  |                              |              |                     |                          |
| 197                                      | 0.001                   | 0.001                   | 41      |                           | 26.800                  |                         | 26.800                  |                              |              |                     |                          |

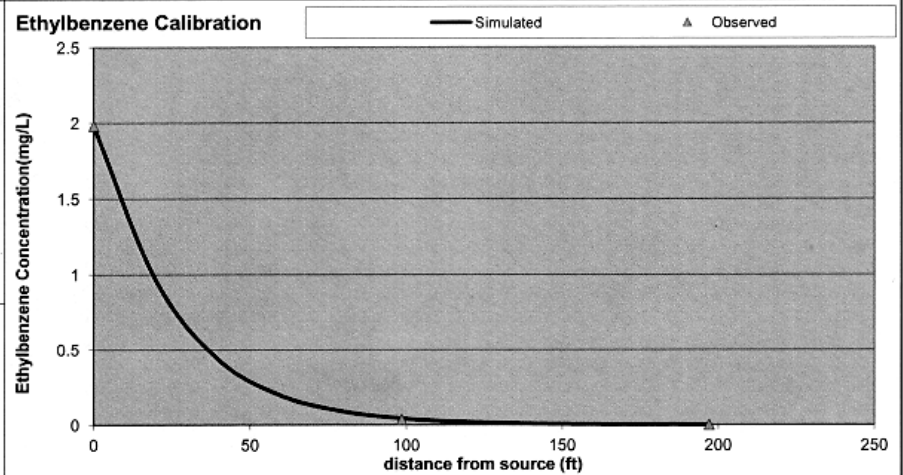
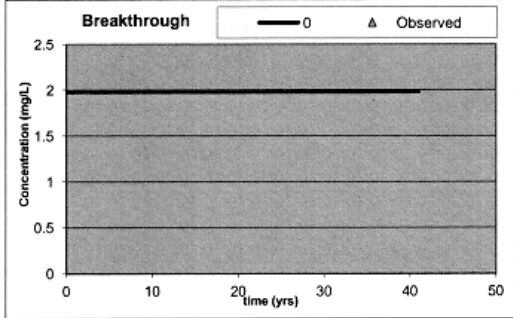
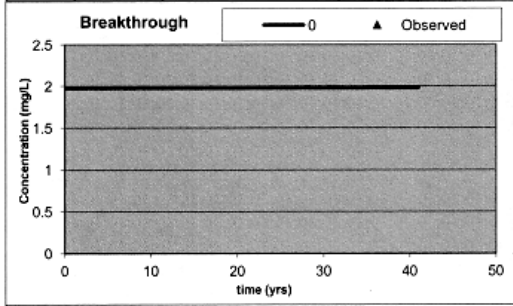


| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 0.00097838 | 0.01659537 | 0.02406735 | 0.01850051 | 0.0109458  | 0.005657  | 0.002699 | 0.001223 | 0.000535 | 0.000228 |
| 19.75  | 2.42950205 | 1.21782187 | 0.52101457 | 0.21195229 | 0.0840958  | 0.0328853 | 0.012744 | 0.00491  | 0.001884 | 0.000721 |
| 0      | 10.1257487 | 3.57766898 | 1.25740246 | 0.446369   | 0.16011589 | 0.0579416 | 0.021119 | 0.007743 | 0.002852 | 0.001055 |
| 19.75  | 2.42950205 | 1.21782187 | 0.52101457 | 0.21195229 | 0.0840958  | 0.0328853 | 0.012744 | 0.00491  | 0.001884 | 0.000721 |
| 39.5   | 0.00097838 | 0.01659537 | 0.02406735 | 0.01850051 | 0.0109458  | 0.005657  | 0.002699 | 0.001223 | 0.000535 | 0.000228 |

| Ethylbenzene Calibration                 |                         |                         |                           |                         |                         |                         |                         |
|--|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Spatial Calibration Data<br>(centerline) |                         |                         | Temporal Calibration Data |                         |                         |                         | Site ID 07960           |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs)                   | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) |
| 0  | 1.98                    | 1.98                    | 0                         |                         | 1.98                    |                         | 1.98                    |
| 19.7                                     |                         | 0.970                   | 4.1                       |                         | 1.980                   |                         | 1.980                   |
| 39.4                                     |                         | 0.444                   | 8.2                       |                         | 1.980                   |                         | 1.980                   |
| 59.1                                     |                         | 0.203                   | 12.3                      |                         | 1.980                   |                         | 1.980                   |
| 78.8                                     |                         | 0.093                   | 16.4                      |                         | 1.980                   |                         | 1.980                   |
| 98.5                                     | 0.0356                  | 0.043                   | 20.5                      |                         | 1.980                   |                         | 1.980                   |
| 118.2                                    |                         | 0.020                   | 24.6                      |                         | 1.980                   |                         | 1.980                   |
| 137.9                                    |                         | 0.010                   | 28.7                      |                         | 1.980                   |                         | 1.980                   |
| 157.6                                    |                         | 0.005                   | 32.8                      |                         | 1.980                   |                         | 1.980                   |
| 177.3                                    |                         | 0.002                   | 36.9                      |                         | 1.980                   |                         | 1.980                   |
| 197                                      | 0.001                   | 0.001                   | 41                        |                         | 1.980                   |                         | 1.980                   |

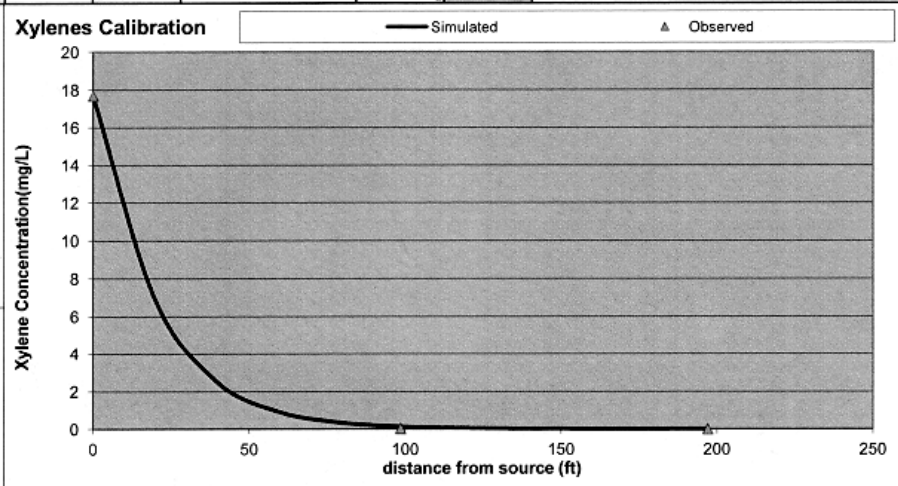
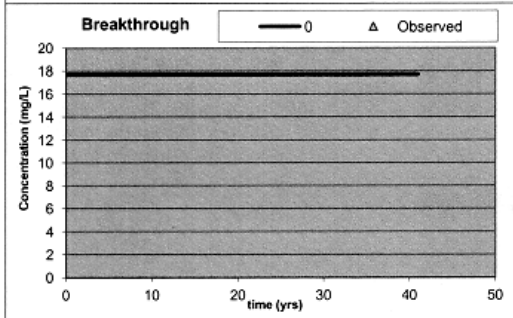
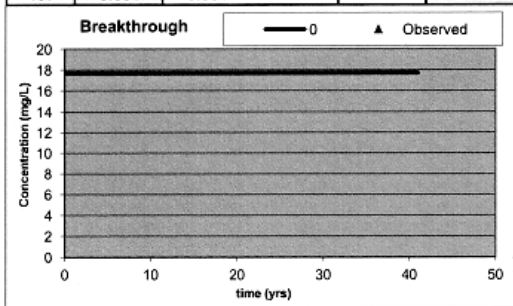
  

| Model Calibration Parameters |              |                               |
|------------------------------|--------------|-------------------------------|
| t <sub>1/2</sub>             | 0.59 yrs     | λ 1.17458 yr <sup>-1</sup>    |
| v <sub>s</sub>               | 30 ft/yr     |                               |
| R                            | 1.239        |                               |
| V <sub>R</sub>               | 24.206 ft/yr | C <sub>source</sub> 1.98 mg/L |
| L <sub>p</sub>               | 197 ft       | t <sub>sim</sub> 41 yrs       |
| α <sub>x</sub>               | 10.93041 ft  |                               |
| α <sub>y</sub>               | 1.093041 ft  |                               |
| α <sub>z</sub>               | 1E-99 ft     |                               |



| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 9.3728E-05 | 0.00206147 | 0.00387657 | 0.00386396 | 0.00296433 | 0.0019865 | 0.001229 | 0.000722 | 0.000409 | 0.000226 |
| 19.75  | 0.23274337 | 0.1512772  | 0.08392073 | 0.04426772 | 0.02277472 | 0.0115481 | 0.005803 | 0.002899 | 0.001443 | 0.000716 |
| 0      | 0.97003455 | 0.44441619 | 0.20253202 | 0.09322729 | 0.04336238 | 0.0203469 | 0.009616 | 0.004571 | 0.002184 | 0.001047 |
| 19.75  | 0.23274337 | 0.1512772  | 0.08392073 | 0.04426772 | 0.02277472 | 0.0115481 | 0.005803 | 0.002899 | 0.001443 | 0.000716 |
| 39.5   | 9.3728E-05 | 0.00206147 | 0.00387657 | 0.00386396 | 0.00296433 | 0.0019865 | 0.001229 | 0.000722 | 0.000409 | 0.000226 |

| Xylenes Calibration                      |                         |                         |                           |                         |                         |                         |                         | Site ID                      | 07960          |
|--|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------|----------------|
| Spatial Calibration Data<br>(centerline) |                         |                         | Temporal Calibration Data |                         |                         |                         | Site Name               |                              | 378 Truck Stop |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs)                   | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | Model Calibration Parameters |                |
| 0  | 17.7                    | 17.7                    | 0                         |                         | 17.7                    |                         | 17.7                    | t <sub>1/2</sub>             | 0.62 yrs       |
| 19.7                                     |                         | 6.958                   | 4.1                       |                         | 17.700                  |                         | 17.700                  | v <sub>x</sub>               | 30 ft/yr       |
| 39.4                                     |                         | 2.558                   | 8.2                       |                         | 17.700                  |                         | 17.700                  | R                            | 1.869          |
| 59.1                                     |                         | 0.935                   | 12.3                      |                         | 17.700                  |                         | 17.700                  | v <sub>R</sub>               | 16.051 ft/yr   |
| 78.8                                     |                         | 0.345                   | 16.4                      |                         | 17.700                  |                         | 17.700                  | L <sub>p</sub>               | 197 ft         |
| 98.5                                     | 0.0274                  | 0.129                   | 20.5                      |                         | 17.700                  |                         | 17.700                  | α <sub>x</sub>               | 10.93041 ft    |
| 118.2                                    |                         | 0.049                   | 24.6                      |                         | 17.700                  |                         | 17.700                  | α <sub>y</sub>               | 1.093041 ft    |
| 137.9                                    |                         | 0.018                   | 28.7                      |                         | 17.700                  |                         | 17.700                  | α <sub>z</sub>               | 1E-99 ft       |
| 157.6                                    |                         | 0.007                   | 32.8                      |                         | 17.700                  |                         | 17.700                  | C <sub>source</sub>          | 17.7 mg/L      |
| 177.3                                    |                         | 0.003                   | 36.9                      |                         | 17.700                  |                         | 17.700                  | t <sub>sim</sub>             | 41 yrs         |
| 197                                      | 0.001                   | 0.001                   | 41                        |                         | 17.700                  |                         | 17.700                  |                              |                |

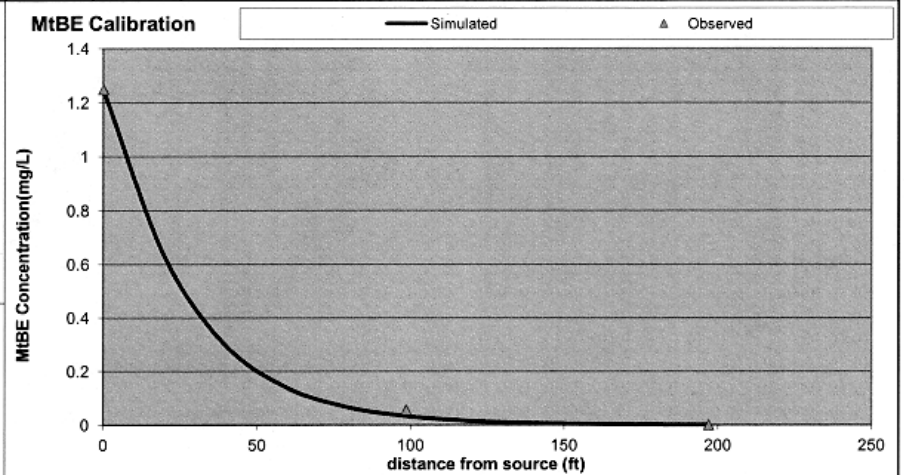
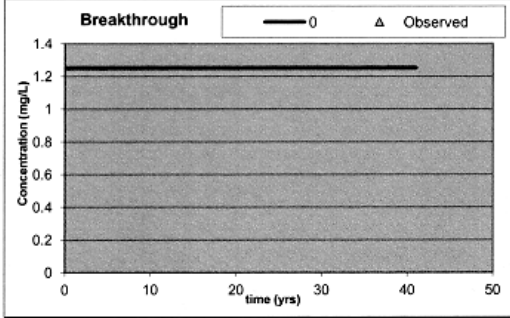
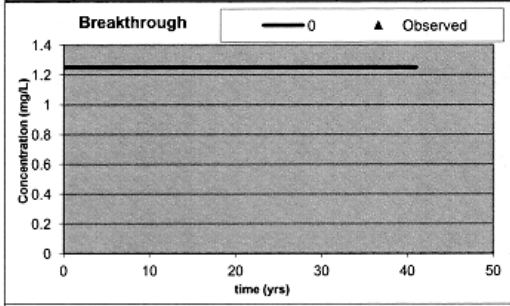


| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 0.00067228 | 0.01186409 | 0.01790113 | 0.01431661 | 0.00881269 | 0.0047386 | 0.002352 | 0.001109 | 0.000505 | 0.000224 |
| 19.75  | 1.66939954 | 0.87062541 | 0.38752702 | 0.16401923 | 0.0677073  | 0.0275465 | 0.011106 | 0.004452 | 0.001778 | 0.000708 |
| 0      | 6.95777154 | 2.55768892 | 0.9352472  | 0.34542255 | 0.12891268 | 0.0485352 | 0.018405 | 0.00702  | 0.002691 | 0.001036 |
| 19.75  | 1.66939954 | 0.87062541 | 0.38752702 | 0.16401923 | 0.0677073  | 0.0275465 | 0.011106 | 0.004452 | 0.001778 | 0.000708 |
| 39.5   | 0.00067228 | 0.01186409 | 0.01790113 | 0.01431661 | 0.00881269 | 0.0047386 | 0.002352 | 0.001109 | 0.000505 | 0.000224 |

| MtBE Calibration                         |                         |                         |                           |                         |                         |                         |   |  |
|--|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|---|--|
| Spatial Calibration Data<br>(centerline) |                         |                         | Temporal Calibration Data |                         |                         |                         | Site ID 07960<br>Site Name 378 Truck Stop |  |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs)                   | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L)                   |  |
| 0  | 1.25                    | 1.25                    | 0                         |                         | 1.25                    |                         | 1.25                                      |  |
| 19.7                                     |                         | 0.635                   | 4.1                       |                         | 1.250                   |                         | 1.250                                     |  |
| 39.4                                     |                         | 0.302                   | 8.2                       |                         | 1.250                   |                         | 1.250                                     |  |
| 59.1                                     |                         | 0.143                   | 12.3                      |                         | 1.250                   |                         | 1.250                                     |  |
| 78.8                                     |                         | 0.068                   | 16.4                      |                         | 1.250                   |                         | 1.250                                     |  |
| 98.5                                     | 0.0566                  | 0.033                   | 20.5                      |                         | 1.250                   |                         | 1.250                                     |  |
| 118.2                                    |                         | 0.016                   | 24.6                      |                         | 1.250                   |                         | 1.250                                     |  |
| 137.9                                    |                         | 0.008                   | 28.7                      |                         | 1.250                   |                         | 1.250                                     |  |
| 157.6                                    |                         | 0.004                   | 32.8                      |                         | 1.250                   |                         | 1.250                                     |  |
| 177.3                                    |                         | 0.002                   | 36.9                      |                         | 1.250                   |                         | 1.250                                     |  |
| 197                                      | 0.001                   | 0.001                   | 41                        |                         | 1.250                   |                         | 1.250                                     |  |

| Model Calibration Parameters |          |       |                               |
|------------------------------|----------|-------|-------------------------------|
| t <sub>1/2</sub>             | 0.51     | yrs   | λ 1.35882 yr <sup>-1</sup>    |
| v <sub>x</sub>               | 30       | ft/yr |                               |
| R                            | 1.000    |       |                               |
| v <sub>R</sub>               | 30.000   | ft/yr | C <sub>source</sub> 1.25 mg/L |
| L <sub>p</sub>               | 197      | ft    | t <sub>sim</sub> 41 yrs       |
| α <sub>x</sub>               | 10.93041 | ft    |                               |
| α <sub>y</sub>               | 1.093041 | ft    |                               |
| α <sub>z</sub>               | 1E-99    | ft    |                               |

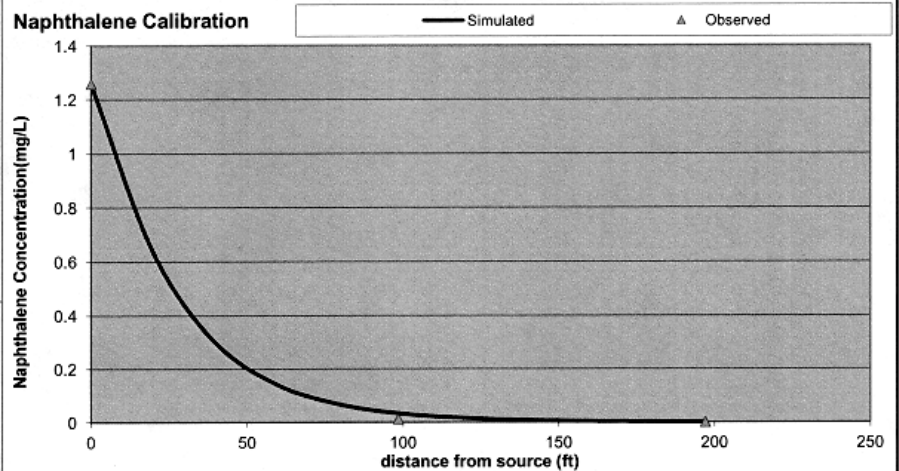
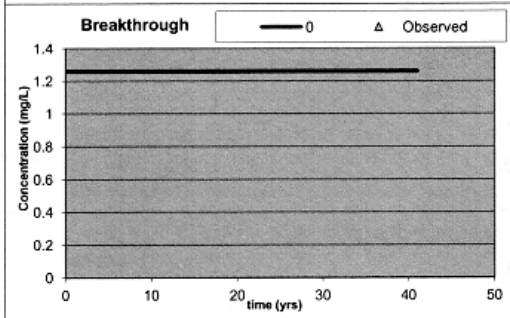
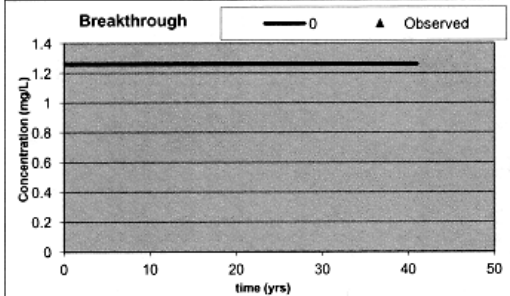


| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 6.1367E-05 | 0.0013998  | 0.00272997 | 0.00282206 | 0.00224533 | 0.0015605 | 0.001001 | 0.00061  | 0.000359 | 0.000206 |
| 19.75  | 0.15238569 | 0.10272174 | 0.059099   | 0.03233107 | 0.01725075 | 0.0090717 | 0.004728 | 0.002449 | 0.001264 | 0.000651 |
| 0      | 0.63511746 | 0.30177186 | 0.14262793 | 0.06808885 | 0.03284491 | 0.0159837 | 0.007834 | 0.003863 | 0.001914 | 0.000952 |
| 19.75  | 0.15238569 | 0.10272174 | 0.059099   | 0.03233107 | 0.01725075 | 0.0090717 | 0.004728 | 0.002449 | 0.001264 | 0.000651 |
| 39.5   | 6.1367E-05 | 0.0013998  | 0.00272997 | 0.00282206 | 0.00224533 | 0.0015605 | 0.001001 | 0.00061  | 0.000359 | 0.000206 |

| Naphthalene Calibration                  |                         |                         |                           |                         |                         |                         |                         |
|--|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Spatial Calibration Data<br>(centerline) |                         |                         | Temporal Calibration Data |                         |                         |                         | Site ID 07960           |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs)                   | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) |
| 0  | 1.26                    | 1.26                    | 0                         |                         | 1.26                    |                         | 1.26                    |
| 19.7                                     |                         | 0.640                   | 4.1                       |                         | 1.260                   |                         | 1.260                   |
| 39.4                                     |                         | 0.304                   | 8.2                       |                         | 1.260                   |                         | 1.260                   |
| 59.1                                     |                         | 0.144                   | 12.3                      |                         | 1.260                   |                         | 1.260                   |
| 78.8                                     |                         | 0.069                   | 16.4                      |                         | 1.260                   |                         | 1.260                   |
| 98.5                                     | 0.0125                  | 0.033                   | 20.5                      |                         | 1.260                   |                         | 1.260                   |
| 118.2                                    |                         | 0.016                   | 24.6                      |                         | 1.260                   |                         | 1.260                   |
| 137.9                                    |                         | 0.008                   | 28.7                      |                         | 1.260                   |                         | 1.260                   |
| 157.6                                    |                         | 0.004                   | 32.8                      |                         | 1.260                   |                         | 1.260                   |
| 177.3                                    |                         | 0.002                   | 36.9                      |                         | 1.260                   |                         | 1.260                   |
| 197                                      | 0.001                   | 0.001                   | 41                        |                         | 1.260                   |                         | 1.260                   |

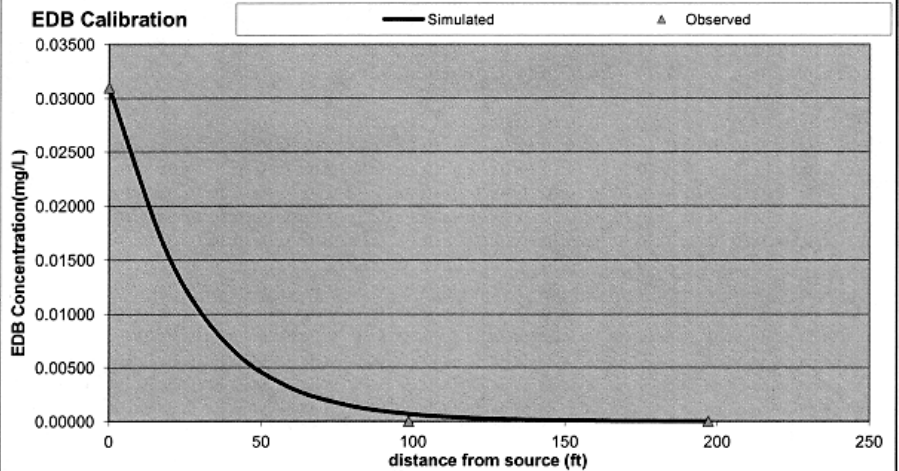
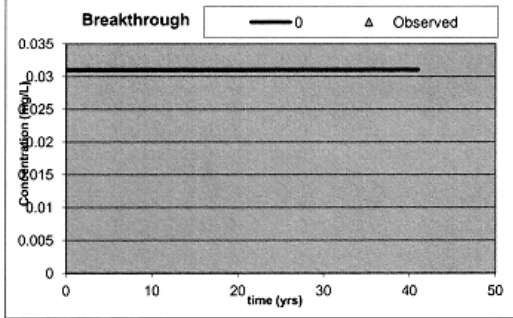
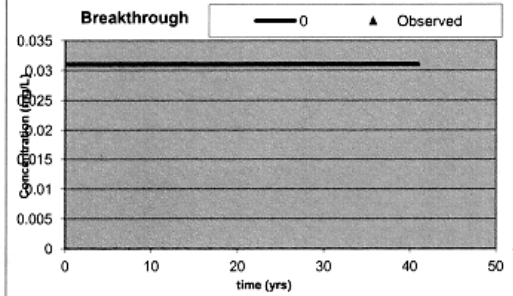
  

| Model Calibration Parameters |          |       |                     |                          |
|------------------------------|----------|-------|---------------------|--------------------------|
| t <sub>1/2</sub>             | 0.51     | yrs   | λ                   | 1.35882 yr <sup>-1</sup> |
| v <sub>s</sub>               | 30       | ft/yr |                     |                          |
| R                            | 1.000    |       |                     |                          |
| V <sub>R</sub>               | 30.000   | ft/yr | C <sub>source</sub> | 1.26 mg/L                |
| L <sub>p</sub>               | 197      | ft    | t <sub>sim</sub>    | 41 yrs                   |
| α <sub>x</sub>               | 10.93041 | ft    |                     |                          |
| α <sub>y</sub>               | 1.093041 | ft    |                     |                          |
| α <sub>z</sub>               | 1E-99    | ft    |                     |                          |



| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 6.1858E-05 | 0.001411   | 0.00275181 | 0.00284463 | 0.0022633  | 0.001573  | 0.001009 | 0.000615 | 0.000362 | 0.000207 |
| 19.75  | 0.15360477 | 0.10354351 | 0.05957179 | 0.03258972 | 0.01738875 | 0.0091442 | 0.004765 | 0.002469 | 0.001274 | 0.000656 |
| 0      | 0.64019839 | 0.30418604 | 0.14376895 | 0.06863356 | 0.03310767 | 0.0161115 | 0.007897 | 0.003893 | 0.001929 | 0.00096  |
| 19.75  | 0.15360477 | 0.10354351 | 0.05957179 | 0.03258972 | 0.01738875 | 0.0091442 | 0.004765 | 0.002469 | 0.001274 | 0.000656 |
| 39.5   | 6.1858E-05 | 0.001411   | 0.00275181 | 0.00284463 | 0.0022633  | 0.001573  | 0.001009 | 0.000615 | 0.000362 | 0.000207 |

| Spatial Calibration Data<br>(centerline) |                         |                         | Temporal Calibration Data |                         |                         |                         | Site ID                 | 07960                        |                |
|--|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------|----------------|
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs)                   | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | Site Name                    | 378 Truck Stop |
| 0  | 0.031                   | 0.03100                 | 0                         |                         | 0.03100                 |                         | 0.03100                 | Model Calibration Parameters |                |
| 19.7                                     |                         | 0.01528                 | 4.1                       |                         | 0.03100                 |                         | 0.03100                 | t <sub>1/2</sub>             | 0.5 yrs        |
| 39.4                                     |                         | 0.00705                 | 8.2                       |                         | 0.03100                 |                         | 0.03100                 | v <sub>x</sub>               | 30 ft/yr       |
| 59.1                                     |                         | 0.00323                 | 12.3                      |                         | 0.03100                 |                         | 0.03100                 | R                            | 1.038          |
| 78.8                                     |                         | 0.00150                 | 16.4                      |                         | 0.03100                 |                         | 0.03100                 | V <sub>R</sub>               | 28.900 ft/yr   |
| 98.5                                     | 0.00002                 | 0.00070                 | 20.5                      |                         | 0.03100                 |                         | 0.03100                 | L <sub>p</sub>               | 197 ft         |
| 118.2                                    |                         | 0.00033                 | 24.6                      |                         | 0.03100                 |                         | 0.03100                 | α <sub>x</sub>               | 10.93041 ft    |
| 137.9                                    |                         | 0.00016                 | 28.7                      |                         | 0.03100                 |                         | 0.03100                 | α <sub>y</sub>               | 1.093041 ft    |
| 157.6                                    |                         | 0.00008                 | 32.8                      |                         | 0.03100                 |                         | 0.03100                 | α <sub>z</sub>               | 1E-99 ft       |
| 177.3                                    |                         | 0.00004                 | 36.9                      |                         | 0.03100                 |                         | 0.03100                 | C <sub>source</sub>          | 0.031 mg/L     |
| 197                                      | 0.00002                 | 0.00002                 | 41                        |                         | 0.03100                 |                         | 0.03100                 | t <sub>sim</sub>             | 41 yrs         |



| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 1.4767E-06 | 3.2685E-05 | 6.1854E-05 | 6.2043E-05 | 4.7899E-05 | 3.23E-05  | 2.01E-05 | 1.19E-05 | 6.79E-06 | 3.77E-06 |
| 19.75  | 0.00366703 | 0.00239856 | 0.00133902 | 0.0007108  | 0.000368   | 0.0001878 | 9.5E-05  | 4.77E-05 | 2.39E-05 | 1.19E-05 |
| 0      | 0.01528355 | 0.0070464  | 0.00323155 | 0.00149693 | 0.00070067 | 0.0003309 | 0.000157 | 7.53E-05 | 3.62E-05 | 1.75E-05 |
| 19.75  | 0.00366703 | 0.00239856 | 0.00133902 | 0.0007108  | 0.000368   | 0.0001878 | 9.5E-05  | 4.77E-05 | 2.39E-05 | 1.19E-05 |
| 39.5   | 1.4767E-06 | 3.2685E-05 | 6.1854E-05 | 6.2043E-05 | 4.7899E-05 | 3.23E-05  | 2.01E-05 | 1.19E-05 | 6.79E-06 | 3.77E-06 |

SSTLs

t 1000 yrs

UST Permit # 07960

Site Name: 378 Truck Stop

Dataset: Monitoring Report Dec. 15, 2015 DKT#101

| SSTLs in mg/L |        | RBSLs (mg/L): |        |                                | 0.005        | 1.000             | 0.700        | 10.000    | 0.040            | 0.025    | 0.00005 |
|---------------|--------|---------------|--------|--------------------------------|--------------|-------------------|--------------|-----------|------------------|----------|---------|
| MW #          | x (ft) | y (ft)        | z (ft) | Benzene SSSL                   | Toluene SSSL | Ethylbenzene SSSL | Xylenes SSSL | MtBE SSSL | Naphthalene SSSL | EDB SSSL |         |
| MW-1          | 268    | 0             | 0      | 992.964*                       | >99999*      | 18222.126*        | >99999*      | 634.333*  | 396.458*         | 1.19451  |         |
| MW-2          | 158    | 0             | 0      | 7.284                          | 3532.436*    | 307.783*          | 25709.202*   | 13.131    | 8.207*           | 0.02090  |         |
| MW-3          | 197    | 0             | 0      | 42.089                         | 25399.344*   | 1323.195*         | >99999*      | 52.525    | 32.828*          | 0.08873  |         |
| MW-7          | 213    | 0             | 0      | 86.078*                        | 56819.325*   | 2396.951*         | >99999*      | 92.374    | 57.734*          | 0.15992  |         |
| MW-12         | 87     | 0             | 0      | 0.283                          | 92.106*      | 20.469*           | 773.233*     | 0.996     | 0.622            | 0.00142  |         |
| MW-13         | 71     | 0             | 0      | 0.134                          | 39.896*      | 10.949*           | 345.875*     | 0.549     | 0.343            | 0.00076  |         |
| MW-16         | 189    | 0             | 0      | 29.407                         | 16967.748*   | 982.301*          | >99999*      | 39.574    | 24.734*          | 0.06604  |         |
| MW-22         | 79     | 0             | 0      | 0.195                          | 60.671*      | 14.984*           | 517.595*     | 0.740     | 0.462            | 0.00104  |         |
| MW-29         | 174    | 0             | 0      | 14.988                         | 7950.688*    | 560.966*          | 56033.245*   | 23.235    | 14.522*          | 0.03790  |         |
| MW-30         | 103    | 0             | 0      | 0.593                          | 211.274*     | 38.021*           | 1717.489*    | 1.796     | 1.122            | 0.00263  |         |
| MW-31         | 142    | 0             | 0      | 3.529                          | 1564.444*    | 168.333*          | 11758.384*   | 7.397     | 4.623            | 0.01149  |         |
| RW-1          | 268    | 0             | 0      | 992.964*                       | >99999*      | 18222.126*        | >99999*      | 634.333*  | 396.458*         | 1.19451  |         |
| TW-1          | 268    | 0             | 0      | 992.964*                       | >99999*      | 18222.126*        | >99999*      | 634.333*  | 396.458*         | 1.19451  |         |
|               |        |               |        | $\lambda$ (yr <sup>-1</sup> ): | 1.690        | 1.873             | 1.175        | 1.118     | 1.359            | 1.359    | 1.386   |
|               |        |               |        | R:                             | 1.110        | 1.181             | 1.239        | 1.869     | 1.000            | 1.000    | 1.038   |
|               |        |               |        | Pure Substance Solubility:     | 1750         | 526               | 169          | 175       | 5110             | 31       | 4321    |
|               |        |               |        | Effective Solubility:          | 44.39        | 26.54             | 3.7          | 21.68     | 173              | 6.7      | 1.9     |

- \* SSTL for Benzene in MW-1, MW-7, RW-1, and TW-1 will revert to solubility limits for benzene
- \* SSTL for Toluene in all wells will revert to solubility limit for Toluene: 26,540 ug/L. 44,390 ug/L
- \* SSTL for Ethylbenzene in all wells will revert to solubility limit for Ethylbenzene: 3,700 ug/L.
- \* SSTL for Xylenes in all wells will revert to solubility limit for Xylenes: 21,680 ug/L.
- \* SSTL for MtBE in MW-1, RW-1, and TW-1 will revert to solubility limit for MtBE: 173,000 ug/L.
- \* SSTL for Naphthalene in MW-1, MW-2, MW-3, MW-7, MW-16, MW-29, RW-1, and TW-1 will revert to solubility limit for Naphthalene: 6,700 ug/L.

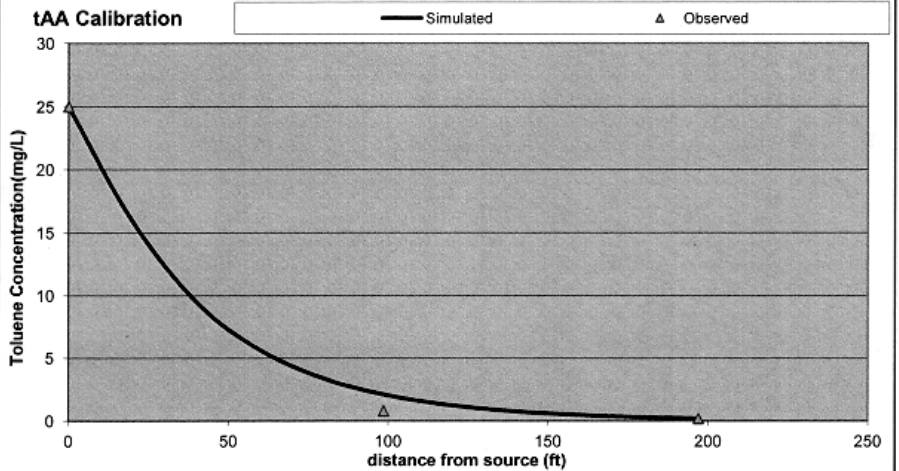
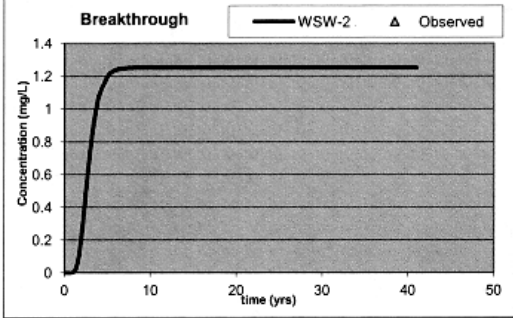
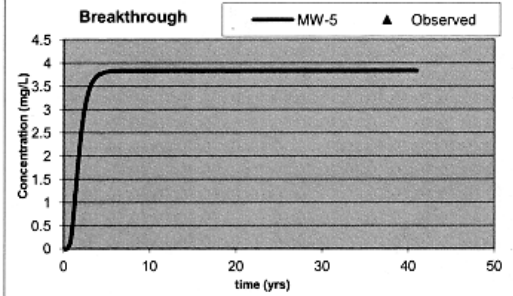


# TAA Model

| Domenico Model (Oxygenates)   |                            |                        | Transport Parameters   |       |                | Simulation Time  |                                  |                                |
|---|----------------------------|------------------------|--|-------|----------------|--|----------------------------------|--------------------------------|
| UST # 07960<br>Site Name: 378 Truck Stop<br>Modeler: Matt Hetrick<br>Date: 12/31/2015   |                            |                        | $x_{max}$ <input type="text" value="197"/> ft<br>$y_{max}$ <input type="text" value="39.5"/> ft<br>$z$ <input type="text" value="0"/> ft<br>Source Width <input type="text" value="30"/> ft<br>Source Thickness <input type="text" value="15"/> ft |       |                | $t_{sim}$ <input type="text" value="41"/> yrs  |                                  |                                |
| Groundwater Flow Parameters   |                            |                        | Plume Length <input type="text" value="197"/> ft<br>$\alpha_x$ <input type="text" value="10.93041"/> ft<br>$\alpha_y$ <input type="text" value="1.093041"/> ft<br>$\alpha_z$ <input type="text" value="1.00E-99"/> ft                              |       |                | Aquifer Characteristics  |                                  |                                |
| $K$ <input type="text" value="70"/> ft/yr<br>$dh/dx$ <input type="text" value="0.1"/><br>$\theta$ <input type="text" value="0.25"/> dec. %<br>$v_x$ <input type="text" value="30"/> ft/yr |                            |                        |  |       |                | $\rho_d$ <input type="text" value="1.7"/> kg/L<br>$f_{oc}$ <input type="text" value="0.0002"/> |                                  |                                |
| Source Area CoC Data  |                            |                        | Retarded Velocity (ft/yr)  |       |                | Simulation Points for Breakthrough Curves  |                                  |                                |
| CoC   | C <sub>source</sub> (mg/L) | K <sub>oc</sub> (L/kg) | CoC  | R     | v <sub>R</sub> |  |                                  |                                |
| tBA   | 25                         | 1                      | tBA  | 1.001 | 29.96          | <input type="text" value="75"/>  | <input type="text" value="120"/> | <input type="text" value="0"/> |
| tAA   |                            | 1                      | tAA  | 1.001 | 29.96          | <input type="text" value="0"/>   | <input type="text" value="0"/>   | <input type="text" value="0"/> |
| DIPE  |                            | 1.5                    | DIPE   | 1.002 | 29.94          | <input type="text" value="0"/>   | <input type="text" value="0"/>   | <input type="text" value="0"/> |
| tAME  |                            | 1.5                    | tAME   | 1.002 | 29.94          | <input type="text" value="0"/>   | <input type="text" value="0"/>   | <input type="text" value="0"/> |
| EtBE  |                            | 1.5                    | EtBE   | 1.002 | 29.94          | <input type="text" value="0"/>   | <input type="text" value="0"/>   | <input type="text" value="0"/> |
| Ethanol   |                            | 0.5                    | Ethanol  | 1.001 | 29.98          | <input type="text" value="0"/>   | <input type="text" value="0"/>   | <input type="text" value="0"/> |

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$

| TAA Calibration                          |                         |                         |         |                           |                         |                         |                         |   |
|--|-------------------------|-------------------------|---------|---------------------------|-------------------------|-------------------------|-------------------------|---|
| Spatial Calibration Data<br>(centerline) |                         |                         |         | Temporal Calibration Data |                         |                         |                         | Site ID 07960   |
| x  | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) | t (yrs) | MW-5                      |                         | WSW-2                   |                         | Site Name 378 Truck Stop  |
|  |                         |                         |         | C <sub>obs</sub> (mg/L)   | C <sub>sim</sub> (mg/L) | C <sub>obs</sub> (mg/L) | C <sub>sim</sub> (mg/L) |   |
| 0  | 25                      | 25                      | 0       |                           | 0                       |                         | 0                       | <b>Model Calibration Parameters</b><br>$t_{1/2}$ 0.88 yrs $\lambda$ 0.7875 yr <sup>-1</sup><br>$v_x$ 30 ft/yr<br>$R$ 1.001<br>$v_R$ 29.959 ft/yr      C <sub>source</sub> 25 mg/L<br>$L_p$ 197 ft      t <sub>sim</sub> 41 yrs<br>$\alpha_x$ 10.93041 ft<br>$\alpha_y$ 1.093041 ft<br>$\alpha_z$ 1E-99 ft |
| 19.7                                     |                         | 16.061                  | 4.1     |                           | 3.752                   |                         | 1.096                   |   |
| 39.4                                     |                         | 9.649                   | 8.2     |                           | 3.833                   |                         | 1.249                   |   |
| 59.1                                     |                         | 5.766                   | 12.3    |                           | 3.833                   |                         | 1.250                   |   |
| 78.8                                     |                         | 3.481                   | 16.4    |                           | 3.833                   |                         | 1.250                   |   |
| 98.5                                     | 0.827                   | 2.123                   | 20.5    |                           | 3.833                   |                         | 1.250                   |   |
| 118.2                                    |                         | 1.306                   | 24.6    |                           | 3.833                   |                         | 1.250                   |   |
| 137.9                                    |                         | 0.810                   | 28.7    |                           | 3.833                   |                         | 1.250                   |   |
| 157.6                                    |                         | 0.505                   | 32.8    |                           | 3.833                   |                         | 1.250                   |   |
| 177.3                                    |                         | 0.316                   | 36.9    |                           | 3.833                   |                         | 1.250                   |   |
| 197                                      | 0.2                     | 0.199                   | 41      |                           | 3.833                   |                         | 1.250                   |   |



| Source | 19.7       | 39.4       | 59.1       | 78.8       | 98.5       | 118.2     | 137.9    | 157.6    | 177.3    | 197      |
|--------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|
| 39.5   | 0.00155185 | 0.04475743 | 0.11036797 | 0.14425636 | 0.14512264 | 0.127529  | 0.103459 | 0.079708 | 0.059269 | 0.042963 |
| 19.75  | 3.85353229 | 3.28444521 | 2.38926676 | 1.65268241 | 1.11496726 | 0.741354  | 0.488497 | 0.320009 | 0.208829 | 0.135926 |
| 0      | 16.060863  | 9.64891337 | 5.76619168 | 3.48052949 | 2.12286438 | 1.3062163 | 0.809514 | 0.504642 | 0.316119 | 0.19883  |
| 19.75  | 3.85353229 | 3.28444521 | 2.38926676 | 1.65268241 | 1.11496726 | 0.741354  | 0.488497 | 0.320009 | 0.208829 | 0.135926 |
| 39.5   | 0.00155185 | 0.04475743 | 0.11036797 | 0.14425636 | 0.14512264 | 0.127529  | 0.103459 | 0.079708 | 0.059269 | 0.042963 |

SSTLs

t 1000 yrs

UST Permit #

Site Name:

| SSTLs in mg/L |        | RBSLs (mg/L): |        |  | 0.240    |  |  |  |  |
|---------------|--------|---------------|--------|--|----------|--|--|--|--|
| MW #          | x (ft) | y (ft)        | z (ft) |  | tAA SSTL |  |  |  |  |
| MW-1          | 268    | 0             | 0      |  | 156.466  |  |  |  |  |
| MW-2          | 158    | 0             | 0      |  | 12.004   |  |  |  |  |
| MW-3          | 197    | 0             | 0      |  | 30.176   |  |  |  |  |
| MW-7          | 213    | 0             | 0      |  | 43.864   |  |  |  |  |
| MW-12         | 87     | 0             | 0      |  | 2.120    |  |  |  |  |
| MW-13         | 71     | 0             | 0      |  | 1.413    |  |  |  |  |
| MW-16         | 189    | 0             | 0      |  | 25.009   |  |  |  |  |
| MW-22         | 79     | 0             | 0      |  | 1.733    |  |  |  |  |
| MW-29         | 174    | 0             | 0      |  | 17.555   |  |  |  |  |
| MW-30         | 103    | 0             | 0      |  | 3.160    |  |  |  |  |
| MW-31         | 142    | 0             | 0      |  | 8.182    |  |  |  |  |
| RW-1          | 268    | 0             | 0      |  | 156.466  |  |  |  |  |
| TW-1          | 268    | 0             | 0      |  | 156.466  |  |  |  |  |

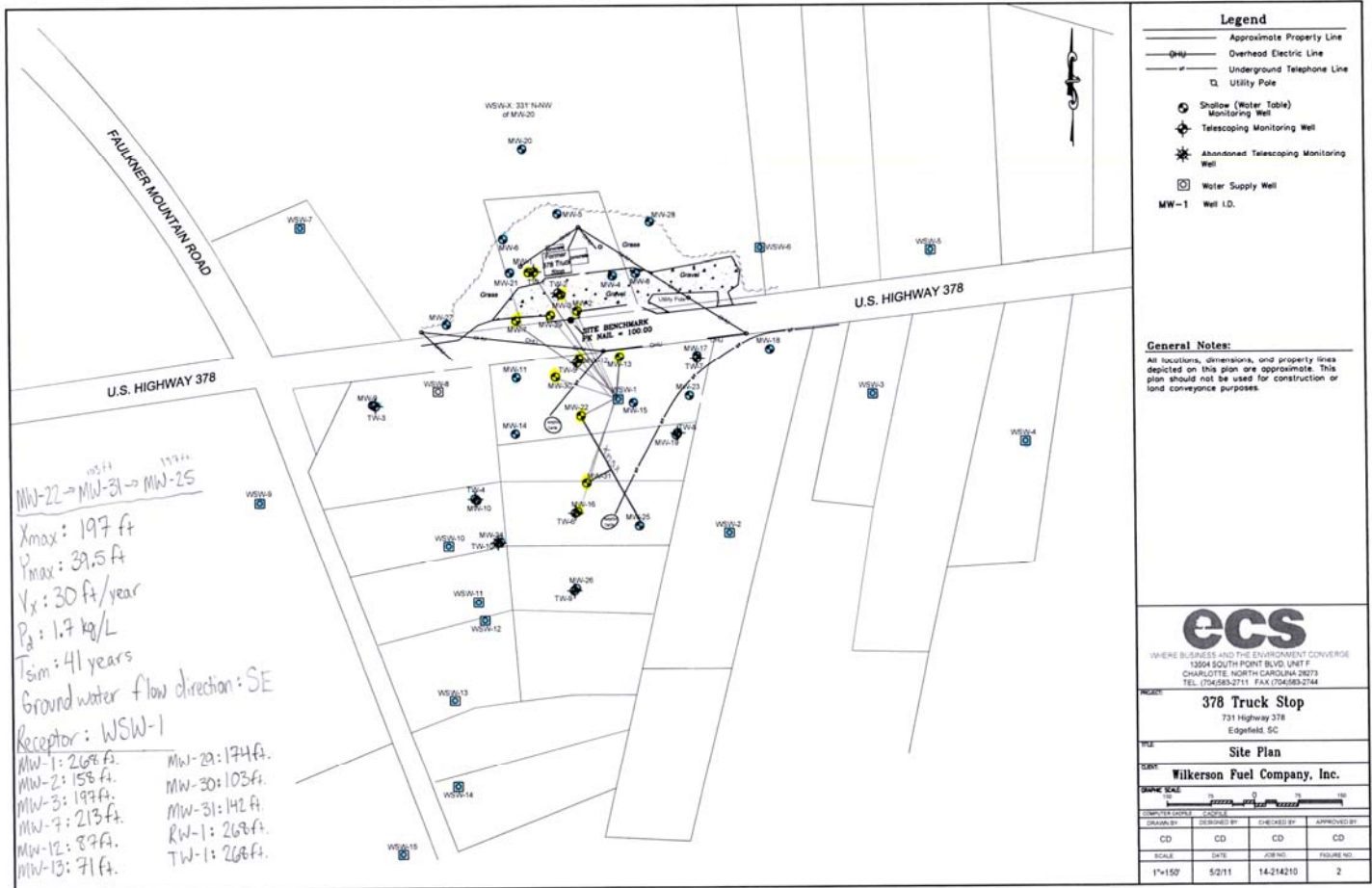
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|  |  |  |                                |  |       |  |  |  |  |
|--|--|--|--------------------------------|--|-------|--|--|--|--|
|  |  |  |                                |  |       |  |  |  |  |
|  |  |  | $\lambda$ (yr <sup>-1</sup> ): |  | 0.788 |  |  |  |  |
|  |  |  | R:                             |  | 1.001 |  |  |  |  |

BTEX, MIBE, Naphth, EDB, +TAA

Groundwater Model December 31, 2015

Data set : Monitoring Report Dec.15,2015 DK#101



$MW-22 \xrightarrow{151ft} MW-31 \xrightarrow{177ft} MW-25$   
 $X_{max} : 197 \text{ ft}$   
 $P_{max} : 39.5 \text{ ft}$   
 $V_x : 30 \text{ ft/year}$   
 $P_g : 1.7 \text{ kg/L}$   
 $T_{sim} : 41 \text{ years}$   
 Ground water flow direction: SE  
 Receptor: WSW-1  
 MW-1: 268 ft.      MW-29: 174 ft.  
 MW-2: 158 ft.      MW-30: 103 ft.  
 MW-3: 197 ft.      MW-31: 142 ft.  
 MW-7: 213 ft.      RW-1: 268 ft.  
 MW-12: 87 ft.      TW-1: 268 ft.  
 MW-13: 71 ft.  
 MW-16: 189 ft.  
 MW-22: 79 ft.

**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊗ Abandoned Telescoping Monitoring Well
- ⊙ Water Supply Well
- ⊠ MW-1 Well I.D.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1304 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704) 583-2711 FAX (704) 583-2744

**PROJECT:** 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

**TITLE:** Site Plan

**CLIENT:** Wilkerson Fuel Company, Inc.

|        |     |    |     |
|--------|-----|----|-----|
| DATE   | NO. | BY | FOR |
| 5/2/11 | 1   | CD | CD  |
| 5/2/11 | 2   | CD | CD  |
| 5/2/11 | 3   | CD | CD  |
| 5/2/11 | 4   | CD | CD  |

SCALE: 1"=150'

$1.9 = \frac{2.5}{x}$   
 $150 = 375$   
 $x = 197$



**COPY**

Catherine E. Heigel, Director

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

RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

JAN 23 2016



Re: **Site-Specific Work Plan Directive for GAC sampling**  
378 Truck Stop, 731 Hwy. 378, Edgefield, SC  
**UST Permit # 07960**  
Release reported October 3, 1974  
Monitoring Report received December 15, 2015  
Edgefield County

Dear Mr. Lowder:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report. The report indicates the presence of chemicals of concern (CoCs) in the groundwater.

To ensure a clean source of drinking water, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Granular Activated Carbon (GAC) Unit sampling and filter change event as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. This scope of work should be conducted on the Gordon Residence water supply well located at 724 Hwy. 378, Edgefield, SC, and at the Scurry Residence water supply well located at 730 Hwy. 378, Edgefield, SC, in accordance with the UST QAPP and in compliance with all applicable regulations. Mr. Sydney Gordon can be contacted at telephone number (803) 637-5266 and Ms. Hattie Scurry can be contacted at telephone number (803) 637-5793. Pre-and post- GAC samples should be collected prior to the filter change and analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the Oxygenates, Ethanol, and EDB. A duplicate sample and field and trip blanks should be included. The Site-Specific Work Plan must be prepared using the format as outlined on-line at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

Please complete and submit the Site-Specific Work Plan and Cost Agreement to the UST Division within fifteen (15) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from the Agency must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #07960. If you have question or need additional information, feel free to contact me by telephone at (803) 898-0610, by fax at (803) 898-0673, or by e-mail to [hetricml@dhec.sc.gov](mailto:hetricml@dhec.sc.gov).

Sincerely,

Matthew L. Hetrick, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land and Waste Management

cc: Technical File

# Emerald, Inc.

CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS

---

2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

---

WEBSITE:  
www.emeraldinc-us.com

TELEPHONE (803) 469-5454  
FAX (803) 469-5465

February 1, 2016

Mr. Matthew Hetrick, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201



Site Specific Work Plan  
378 Truck Stop  
731 S.C. Highway 378  
Edgefield, South Carolina  
Edgefield County  
SCDHEC Site ID #07960



Mr. Hetrick,

Please find the attached Site Specific Work Plan and example chain of custody for pre and post granular activated carbon filter (GAC) sampling. These GACs are associated with the Gordon and Scurry residences located outside Edgefield, SC. The sampling will take place prior to a carbon filter change. If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,

A handwritten signature in black ink, appearing to read "William C. McClary".

William C. McClary, P.G.  
Project Manager

Enc:  
Site Specific Work Plan  
Example Chain of Custody



## Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

**To:** Matthew Hetrick, Hydrogeologist (SCDHEC Project Manager)  
**From:** William C. McClary, P.G. (Contractor Project Manager)  
**Contractor:** Emerald, Inc. **UST Contractor Certification Number:** 67

**Facility Name:** 378 Truck Stop **UST Permit #:** 07960  
**Facility Address:** 731 US Highway 378, Edgefield, SC

**Responsible Party:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Responsible Party Address:** \_\_\_\_\_

**Property Owner (if different):** \_\_\_\_\_

**Property Owner Address:** \_\_\_\_\_

**Current Use of Property:** \_\_\_\_\_

**Scope of Work (Please check all that apply)**

|                                 |   |  |   |
|---------------------------------|---|--|---|
| <input type="checkbox"/> IGWA   | <input type="checkbox"/> Tier II                      | <input type="checkbox"/> Groundwater Sampling                                | <input checked="" type="checkbox"/> GAC |
| <input type="checkbox"/> Tier I | <input type="checkbox"/> Monitoring Well Installation | <input checked="" type="checkbox"/> Other: <u>Water Supply Well sampling</u> |   |

**Analyses (Please check all that apply)**

Groundwater/Surface Water:

|  |  |                                       |   |
|--|--|---------------------------------------|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (8260B)  | <input type="checkbox"/> Lead          | <input type="checkbox"/> BOD          | <input type="checkbox"/> Methane        |
| <input checked="" type="checkbox"/> Oxygenates (8260B) | <input type="checkbox"/> 8 RCRA Metals | <input type="checkbox"/> Nitrate      | <input type="checkbox"/> Ethanol        |
| <input checked="" type="checkbox"/> EDB (8011)         | <input type="checkbox"/> TPH           | <input type="checkbox"/> Sulfate      | <input type="checkbox"/> Dissolved Iron |
| <input type="checkbox"/> PAH (8270D)                   | <input type="checkbox"/> pH            | <input type="checkbox"/> Other: _____ |   |

Soil:

|                                |  |  |                                     |
|--------------------------------|--|--|-------------------------------------|
| <input type="checkbox"/> BTEXN | <input type="checkbox"/> 8 RCRA Metals       | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input type="checkbox"/> Grain Size |
| <input type="checkbox"/> PAH   | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC        |

Air:

|                                |  |  |  |
|--------------------------------|--|--|--|
| <input type="checkbox"/> BTEXN |  |  |  |
|--------------------------------|--|--|--|

**Quarterly Needs (Estimate the total number of samples of each matrix that are expected to be collected.)**

|                          |                   |                   |
|--------------------------|-------------------|-------------------|
| _____ Mobilizations      | _____ Duplicate   | _____ Field Blank |
| _____ Water Supply Wells | _____ Gac Changes | _____ Trip Blank  |

**Per Event (Estimate the total number of samples of each matrix that are expected to be collected.)**

|                             |                      |                      |
|-----------------------------|----------------------|----------------------|
| <u>1</u> Mobilizations      | <u>1</u> Duplicate   | <u>1</u> Field Blank |
| <u>4</u> Water Supply Wells | <u>2</u> Gac Changes | <u>1</u> Trip Blank  |

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their propose locations on the attached map.

|                            |                          |                |
|----------------------------|--------------------------|----------------|
| # of shallow wells: _____  | Estimated Footage: _____ | feet per point |
| # of deep wells: _____     | Estimated Footage: _____ | feet per point |
| # of recovery wells: _____ | Estimated Footage: _____ | feet per point |

Monitoring Well development method(consistent with SOP): \_\_\_\_\_

Comments, if warranted: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



UST Permit #: 07960

Facility Name: 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 5  
Report Submittal: 15

Field Work Completion: 10  
# of Copies Provided to Property Owners:           

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil:                      Tons  
Drilling Fluids:                      Gallons

Purge Water:                      Gallons  
Free Phase Product:                      Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

The subject site (378 Truck Stop) is located at 731 US Highway 378 outside Edgefield, SC. Two nearby water supply well (Gordon and Scurry Wells) have been impacted by petroleum contamination. The Gordon well (724 US Hwy 378) and Scurry well (730 US Hwy 378) have been attached to a granular activated carbon filter (GAC) to aid in removal of petroleum contaminants. Prior to a carbon change of the GAC units, samples will be collected before filtering and after passing through the GAC filter (before entering residence). The duplicate sample will be collected from the Pre-GAC sampling port of the Scurry Well. This work will be conducted under Solicitation #IFB-54200005822-5/3/13-EMW and PO #4600346242. The samples will be collected after opening the spigot for approximately 10 minutes or until the well pump turns on. Samples will be collected by allowing the well water to pour directly into laboratory supplied sampling containers.

**Compliance With Annual Contractor Assurance Plan (ACQAP)**

**Yes** Laboratory as indicated in ACQAP (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

**N/A** Well Driller as indicated in ACQAP (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_  
SCLLR Certification number: \_\_\_\_\_

Other Variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.

2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

- |                                    |   |
|------------------------------------|---|
| North Arrow                        | Proposed monitoring well locations                                      |
| Location of property lines         | Legend with facility name and address, UST permit number, and bar scale |
| Location of buildings              | Streets or highways (indicate names and numbers)                        |
| Previous soil sampling locations   | Location of all present and former ASTs and USTs                        |
| Previous monitoring well locations | Location of all potential receptors                                     |
| Proposed soil boring locations     |   |

3. Assessment Component Cost Agreement, SCDHEC Form D-3664



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|  |   |  |   |
|--|---|--|---|
| <b>Section A</b><br>Required Client Information: | <b>Section B</b><br>Required Project Information: | <b>Section C</b><br>Invoice Information: | Page: _____ of _____  |
| Company: SCDHEC                                  | Report To: JOHN BRYANT                            | Attention:                               | <b>REGULATORY AGENCY</b><br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ |
| Address: 2600 BULL STREET                        | Copy To:  | Company Name:                            |   |
| COLUMBIA, SC 29201                               |   | Address:                                 |   |
| Email To: bryantjc@dhec.sc.gov                   | Purchase Order No.:                               | Pace Quote Reference:                    |   |
| Phone: 803-898-0606   Fax:                       | Project Name: 378 Truck Stop                      | Pace Project Manager: T. CARTER          | <b>Site Location</b><br>STATE: SC   |
| Requested Due Date/TAT:                          | Project Number: SCDHEC SITE ID#07960, PACE CA#    | Pace Profile #:                          |   |

| ITEM # | Section D<br>Required Client Information | Valid Matrix Codes<br>MATRIX CODE<br>DRINKING WATER DW<br>WATER WT<br>WASTE WATER WW<br>PRODUCT P<br>SOL/SOLID SL<br>CL CL<br>WIPE WP<br>AIR AR<br>OTHER OT<br>TISSUE TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          | Analysis Test<br>Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Face Project No / Lab I.D. |       |  |  |  |
|--------|--|--|---------------------------------------|-----------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|----------------------|-----------------------------------|-------------------------|----------------------------|-------|--|--|--|
|        |  |  |                                       |                             | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol |                      |                                   |                         |                            | Other |  |  |  |
|        |  |  |                                       |                             | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |          |                      |                                   |                         |                            |       |  |  |  |
| 1      | 09383 SCURRY PRE-GAC                     |  | WT                                    | G                           |                 |      |                    |      | 6                         |                 |               |                                |                  |     |      |   | X        | X                    | X                                 |                         |                            |       |  |  |  |
| 2      | 09383 SCURRY PRE-GAC DUP                 |  | WT                                    | G                           |                 |      |                    |      | 6                         |                 |               |                                |                  |     |      |   | X        | X                    | X                                 |                         |                            |       |  |  |  |
| 3      | 09383 SCURRY POST-GAC                    |  | WT                                    | G                           |                 |      |                    |      | 6                         |                 |               |                                |                  |     |      |   | X        | X                    | X                                 |                         |                            |       |  |  |  |
| 4      | 09383 GORDON PRE-GAC                     |  | WT                                    | G                           |                 |      |                    |      | 6                         |                 |               |                                |                  |     |      |   | X        | X                    | X                                 |                         |                            |       |  |  |  |
| 5      | 09383 GORDON POST-GAC                    |  | WT                                    | G                           |                 |      |                    |      | 6                         |                 |               |                                |                  |     |      |   | X        | X                    | X                                 |                         |                            |       |  |  |  |
| 6      | 09383 FIELD BLANK                        |  | WT                                    | G                           |                 |      |                    |      | 6                         |                 |               |                                |                  |     |      |   | X        | X                    | X                                 |                         |                            |       |  |  |  |
| 7      | 09383 TRIP BLANK                         |  | WT                                    | G                           |                 |      |                    |      | 2                         |                 |               |                                |                  |     |      |   | X        | X                    |                                   |                         |                            |       |  |  |  |
| 8      |  |  |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                      |                                   |                         |                            |       |  |  |  |
| 9      |  |  |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                      |                                   |                         |                            |       |  |  |  |
| 10     |  |  |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                      |                                   |                         |                            |       |  |  |  |
| 11     |  |  |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                      |                                   |                         |                            |       |  |  |  |
| 12     |  |  |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                      |                                   |                         |                            |       |  |  |  |

| ADDITIONAL COMMENTS              | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|----------------------------------|-------------------------------|------|------|---------------------------|------|------|-------------------|
| LOW DETECTION LIMITS ON ITEM 1-5 |                               |      |      |                           |      |      |                   |
|                                  |                               |      |      |                           |      |      |                   |
|                                  |                               |      |      |                           |      |      |                   |

| SAMPLER NAME AND SIGNATURE |                         | Temp in °C | Receiver on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|----------------------------|-------------------------|------------|-----------------------|-----------------------------|----------------------|
| PRINT Name of SAMPLER:     |                         |            |                       |                             |                      |
| SIGNATURE of SAMPLER:      | DATE Signed (MM/DD/YY): |            |                       |                             |                      |



Catherine E. Heigel, Director

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

RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

FEB 12 2016



Re: Notice to Proceed-GAC Change and Groundwater Sample Collection  
378 Truck Stop, 731 Hwy. 378, Edgefield, SC  
**UST Permit # 07960; CA #51972 & (PACE CA # 51973)**  
IFB-5400005822-5/3/13-EMW; PO #4600444865  
Site-Specific Work Plan received February 4, 2016  
Edgefield County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, collection of pre- and post- GAC unit groundwater samples has been approved for the Gordon residence located at 724 US Hwy 378, Edgefield, SC and the Scurry Residence located at 730 Hwy. 378, Edgefield, SC. The contact persons for these residences are Mr. Gordon and Ms. Hattie Scurry. They can be reached at (803) 637-5266 and (803) 637-5793 respectively. The pre and post GAC unit groundwater samples should be collected and submitted to Pace Analytical Services for analysis.

This facility has been assigned individual Cost Agreement (CA) numbers as listed above. Please reference the **CA #51972 and PO # 4600444865** on the invoice submitted for payment for the sampling. CA #51973 has been approved for Pace Analytical Services for sample analyses. Emerald Inc. should complete the work in accordance with the contract specifications and established schedule. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulation. A GAC Unit Installation and Maintenance record should be submitted within thirty (30) days from the date of Notice to Proceed.

On all correspondence or inquiries regarding this directive, please reference UST Permit # 07960, CA #51972, and CA #51973. If you have any questions or need further assistance, please contact me at (803) 898-0610 or by email at [hetricml@dhec.sc.gov](mailto:hetricml@dhec.sc.gov).

Sincerely,

Matthew L. Hetrick, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement forms

cc: Technical File (w/enc.)  
Maia Milenkova, UST Management Division (w/enc.)  
Pace Analytical Services, 9800 Kincey Avenue, Ste 100, Huntersville NC 28078(w/enc.)



Catherine E. Heigel, Director

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

**FAX MESSAGE**

---

Date: \_\_\_\_\_

Number of Pages including Cover sheet: \_\_\_\_\_

**Please Deliver This Fax Message**

**TO:** Ronny Lowder  
Name

Emerald, Inc.  
Organization/Department

(803) 469-5465  
Fax Number

(803) 469-5454  
Phone Number

**FROM:** Matthew L. Hetrick, Hydrogeologist  
UST Management Division, Bureau of Land and Waste Management  
(803) 898-0673 Fax Number (803) 898-0610 Phone Number

**SUBJECT/COMMENT: In accordance with BID IFB-5400005822 5/3/13-EMW and Purchase Order Number PO #4600444865, the following activity shall be conducted at the facility below:**

**Activity: GAC Filter changes with pre and post sampling**

**Pre and post sample collection.**

**Facility:378 Truck Stop**

**UST Permit #:07960**

**CA#:51972 & (PACE CA# 51973)**

**Confidentiality Notice**

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UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240

**MEMORANDUM**

TO: Emerald, Inc.

FROM: Matthew Hetrick

RE: NOTICE TO PROCEED

Facility Name: 378 Truck Stop

Permit Number: 07960

County: Edgefield

Work To Be Completed: GAC Filter changes with pre and post sampling on the Gordon and Scurry residence wells.

# Approved Cost Agreement 51973

Facility: 07960 378 TRUCK STOP

HETRICML

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u>    | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|-----------------------------------|---------------------|-------------------|---------------|
| 11 ANALYSES               |                   |                                   |                     |                   |               |
|                           | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 7.0000              | \$19.000          | 133.00        |
|                           |                   | F1 EDB BY 8011                    | 6.0000              | \$18.000          | 108.00        |
|                           |                   |                                   | <b>Total Amount</b> |                   | 241.00        |

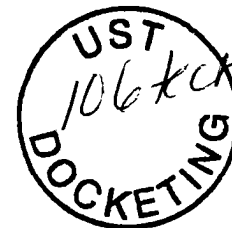
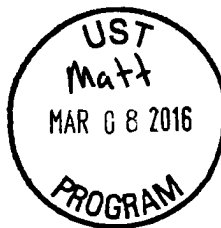
# Approved Cost Agreement 51972

Facility: 07960 378 TRUCK STOP

HETRICML

PO Number.

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>         | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|---------------------------------|------------------|-------------------|---------------|
| 01 PLAN                   |                   | C TIER II/COMP. PLAN/QAPP APP B | 1.0000           | \$100.000         | 100.00        |
| 04 MOB/DEMOB              |                   | B PERSONNEL                     | 1.0000           | \$90.000          | 90.00         |
| 10 SAMPLE COLLECTION      |                   | C WATER SUPPLY                  | 4.0000           | \$10.000          | 40.00         |
| 24 GAC SYSTEM             |                   | C FILTER REPLACEMENT/REMOVAL    | 2.0000           | \$350.000         | 700.00        |
| <b>Total Amount</b>       |                   |                                 |                  |                   | <b>930.00</b> |



February 26, 2016

Mr. John Bryant  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: 07960/51973 378 TRUCK STOP  
Pace Project No.: 92287090

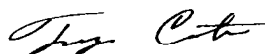
Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Trey Carter  
treycarter@pacelabs.com  
Project Manager

Enclosures

cc: Ashleigh Thrash, SCHDEC



## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

### CERTIFICATIONS

Project 07960/51973 378 TRUCK STOP  
Pace Project No.: 92287090

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#### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification # 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### SAMPLE SUMMARY

Project: 07960/51973 378 TRUCK STOP  
Pace Project No.: 92287090

| Lab ID      | Sample ID                | Matrix | Date Collected | Date Received  |
|-------------|--------------------------|--------|----------------|----------------|
| 92287090001 | 09383 GORDON PRE-GAC     | Water  | 02/16/16 11:45 | 02/18/16 11:42 |
| 92287090002 | 09383 GORDON PRE-GAC DUP | Water  | 02/16/16 11:50 | 02/18/16 11:42 |
| 92287090003 | 09383 GORDON POST-GAC    | Water  | 02/16/16 11:55 | 02/18/16 11:42 |
| 92287090004 | 09383 SCURRY PRE-GAC     | Water  | 02/16/16 13:20 | 02/18/16 11:42 |
| 92287090005 | 09383 SCURRY POST-GAC    | Water  | 02/16/16 13:25 | 02/18/16 11:42 |
| 92287090006 | 09383 FIELD BLANK        | Water  | 02/16/16 13:30 | 02/18/16 11:42 |
| 92287090007 | 09383 TRIP BLANK         | Water  | 02/16/16 13:35 | 02/18/16 11:42 |

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### SAMPLE ANALYTE COUNT

Project: 07960/51973 378 TRUCK STOP  
Pace Project No.: 92287090

| Lab ID      | Sample ID                | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------------|----------|----------|-------------------|------------|
| 92287090001 | 09383 GORDON PRE-GAC     | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                          | EPA 8260 | GAW      | 20                | PASI-C     |
| 92287090002 | 09383 GORDON PRE-GAC DUP | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                          | EPA 8260 | GAW      | 20                | PASI-C     |
| 92287090003 | 09383 GORDON POST-GAC    | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                          | EPA 8260 | GAW      | 20                | PASI-C     |
| 92287090004 | 09383 SCURRY PRE-GAC     | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                          | EPA 8260 | GAW      | 20                | PASI-C     |
| 92287090005 | 09383 SCURRY POST-GAC    | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                          | EPA 8260 | GAW      | 20                | PASI-C     |
| 92287090006 | 09383 FIELD BLANK        | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                          | EPA 8260 | CCL      | 20                | PASI-C     |
| 92287090007 | 09383 TRIP BLANK         | EPA 8260 | CCL      | 20                | PASI-C     |

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**SUMMARY OF DETECTION**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

| Lab Sample ID      | Client Sample ID             | Result | Units | Report Limit | Analyzed       | Qualifiers |
|--------------------|------------------------------|--------|-------|--------------|----------------|------------|
| Method             | Parameters                   |        |       |              |                |            |
| <b>92287090001</b> | <b>09383 GORDON PRE-GAC</b>  |        |       |              |                |            |
| EPA 8260           | tert-Amyl Alcohol            | 77.1J  | ug/L  | 100          | 02/19/16 19:29 |            |
| EPA 8260           | tert-Butyl Alcohol           | 5.6J   | ug/L  | 100          | 02/19/16 19:29 |            |
| EPA 8260           | Naphthalene                  | 0.54J  | ug/L  | 1.0          | 02/19/16 19:29 |            |
| <b>92287090003</b> | <b>09383 GORDON POST-GAC</b> |        |       |              |                |            |
| EPA 8260           | tert-Amyl Alcohol            | 84.7J  | ug/L  | 100          | 02/19/16 20:03 |            |
| EPA 8260           | tert-Butyl Alcohol           | 5.3J   | ug/L  | 100          | 02/19/16 20:03 |            |

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

Sample: 09383 GORDON PRE-GAC Lab ID: 92287090001 Collected: 02/16/16 11:45 Received: 02/18/16 11:42 Matrix: Water

| Parameters                   | Results | Units  | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020 | 1  | 02/23/16 14:00 | 02/24/16 09:10 | 106-93-4    |      |
| <b>Surrogates</b>            |         |  |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)  | 109     | %  | 60-140       |       | 1  | 02/23/16 14:00 | 02/24/16 09:10 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method: EPA 8260                              |              |       |    |                |                |             |      |
| tert-Amyl Alcohol            | 77.1J   | ug/L   | 100          | 50.0  | 1  |                | 02/19/16 19:29 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 0.10  | 1  |                | 02/19/16 19:29 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 1.0          | 0.25  | 1  |                | 02/19/16 19:29 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 50.0  | 1  |                | 02/19/16 19:29 | 624-95-3    |      |
| tert-Butyl Alcohol           | 5.6J    | ug/L   | 100          | 3.6   | 1  |                | 02/19/16 19:29 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 1.9   | 1  |                | 02/19/16 19:29 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 1.0          | 0.24  | 1  |                | 02/19/16 19:29 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 1.0          | 0.12  | 1  |                | 02/19/16 19:29 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200          | 33.0  | 1  |                | 02/19/16 19:29 | 64-17-5     | L3   |
| Ethylbenzene                 | ND      | ug/L   | 1.0          | 0.30  | 1  |                | 02/19/16 19:29 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 0.070 | 1  |                | 02/19/16 19:29 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 1.0          | 0.21  | 1  |                | 02/19/16 19:29 | 1634-04-4   |      |
| Naphthalene                  | 0.54J   | ug/L   | 1.0          | 0.24  | 1  |                | 02/19/16 19:29 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 1.0          | 0.26  | 1  |                | 02/19/16 19:29 | 108-88-3    |      |
| Xylene (Total)               | ND      | ug/L   | 2.0          | 0.66  | 1  |                | 02/19/16 19:29 | 1330-20-7   |      |
| m&p-Xylene                   | ND      | ug/L   | 2.0          | 0.66  | 1  |                | 02/19/16 19:29 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 1.0          | 0.23  | 1  |                | 02/19/16 19:29 | 95-47-6     |      |
| <b>Surrogates</b>            |         |  |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)     | 98      | %  | 70-130       |       | 1  |                | 02/19/16 19:29 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 105     | %  | 70-130       |       | 1  |                | 02/19/16 19:29 | 17060-07-0  |      |
| Toluene-d8 (S)               | 104     | %  | 70-130       |       | 1  |                | 02/19/16 19:29 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

Sample: 09383 GORDON PRE-GAC Lab ID: 92287090002 Collected: 02/16/16 11 50 Received: 02/18/16 11:42 Matrix: Water  
 DUP

| Parameters                   | Results | Units  | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020 | 1  | 02/23/16 14 00 | 02/24/16 09 31 | 106-93-4    |      |
| <b>Surrogates</b>            |         |  |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)  | 101     | %  | 60-140       |       | 1  | 02/23/16 14:00 | 02/24/16 09:31 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method EPA 8260                               |              |       |    |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 50.0  | 1  |                | 02/19/16 19 46 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 0 10  | 1  |                | 02/19/16 19:46 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 1.0          | 0 25  | 1  |                | 02/19/16 19 46 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 50 0  | 1  |                | 02/19/16 19:46 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 3 6   | 1  |                | 02/19/16 19:46 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 1.9   | 1  |                | 02/19/16 19:46 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 1 0          | 0.24  | 1  |                | 02/19/16 19:46 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 1 0          | 0.12  | 1  |                | 02/19/16 19:46 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200          | 33.0  | 1  |                | 02/19/16 19:46 | 64-17-5     | L3   |
| Ethylbenzene                 | ND      | ug/L   | 1 0          | 0.30  | 1  |                | 02/19/16 19.46 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 0.070 | 1  |                | 02/19/16 19:46 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 1.0          | 0.21  | 1  |                | 02/19/16 19:46 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L   | 1 0          | 0.24  | 1  |                | 02/19/16 19:46 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 1.0          | 0.26  | 1  |                | 02/19/16 19:46 | 108-88-3    |      |
| Xylene (Total)               | ND      | ug/L   | 2 0          | 0.66  | 1  |                | 02/19/16 19:46 | 1330-20-7   |      |
| m&p-Xylene                   | ND      | ug/L   | 2 0          | 0.66  | 1  |                | 02/19/16 19:46 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 1.0          | 0.23  | 1  |                | 02/19/16 19 46 | 95-47-6     |      |
| <b>Surrogates</b>            |         |  |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)     | 97      | %  | 70-130       |       | 1  |                | 02/19/16 19 46 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 103     | %  | 70-130       |       | 1  |                | 02/19/16 19:46 | 17060-07-0  |      |
| Toluene-d8 (S)               | 103     | %  | 70-130       |       | 1  |                | 02/19/16 19:46 | 2037-26-5   |      |

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**ANALYTICAL RESULTS**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

Sample: 09383 GORDON POST-GAC Lab ID: 92287090003 Collected: 02/16/16 11:55 Received: 02/18/16 11:42 Matrix: Water

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b>                             |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                  | ND      | ug/L  | 0.020        | 0.020 | 1  | 02/23/16 14:00 | 02/24/16 09:51 | 106-93-4    |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)                              | 91      | %     | 60-140       |       | 1  | 02/23/16 14:00 | 02/24/16 09:51 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b>                             |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8260                              |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol  | 84.7J   | ug/L  | 100          | 50.0  | 1  |                | 02/19/16 20:03 | 75-85-4     |      |
| tert-Amylmethyl ether                                    | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 02/19/16 20:03 | 994-05-8    |      |
| Benzene  | ND      | ug/L  | 1.0          | 0.25  | 1  |                | 02/19/16 20:03 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol                                   | ND      | ug/L  | 100          | 50.0  | 1  |                | 02/19/16 20:03 | 624-95-3    |      |
| tert-Butyl Alcohol                                       | 5.3J    | ug/L  | 100          | 3.6   | 1  |                | 02/19/16 20:03 | 75-65-0     |      |
| tert-Butyl Formate                                       | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 02/19/16 20:03 | 762-75-4    |      |
| 1,2-Dichloroethane                                       | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 02/19/16 20:03 | 107-06-2    |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 02/19/16 20:03 | 108-20-3    |      |
| Ethanol  | ND      | ug/L  | 200          | 33.0  | 1  |                | 02/19/16 20:03 | 64-17-5     | L3   |
| Ethylbenzene   | ND      | ug/L  | 1.0          | 0.30  | 1  |                | 02/19/16 20:03 | 100-41-4    |      |
| Ethyl-tert-butyl ether                                   | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 02/19/16 20:03 | 637-92-3    |      |
| Methyl-tert-butyl ether                                  | ND      | ug/L  | 1.0          | 0.21  | 1  |                | 02/19/16 20:03 | 1634-04-4   |      |
| Naphthalene  | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 02/19/16 20:03 | 91-20-3     |      |
| Toluene  | ND      | ug/L  | 1.0          | 0.26  | 1  |                | 02/19/16 20:03 | 108-88-3    |      |
| Xylene (Total)   | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 02/19/16 20:03 | 1330-20-7   |      |
| m&p-Xylene   | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 02/19/16 20:03 | 179601-23-1 |      |
| o-Xylene   | ND      | ug/L  | 1.0          | 0.23  | 1  |                | 02/19/16 20:03 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                 | 95      | %     | 70-130       |       | 1  |                | 02/19/16 20:03 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)                                | 101     | %     | 70-130       |       | 1  |                | 02/19/16 20:03 | 17060-07-0  |      |
| Toluene-d8 (S)   | 102     | %     | 70-130       |       | 1  |                | 02/19/16 20:03 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

Sample: 09383 SCURRY PRE-GAC Lab ID: 92287090004 Collected: 02/16/16 13:20 Received: 02/18/16 11:42 Matrix: Water

| Parameters                   | Results | Units  | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No      | Qual |
|------------------------------|---------|--|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019        | 0.019 | 1  | 02/23/16 14:01 | 02/24/16 10:12 | 106-93-4    |      |
| <b>Surrogates</b>            |         |  |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)  | 102     | %  | 60-140       |       | 1  | 02/23/16 14:01 | 02/24/16 10:12 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method: EPA 8260                              |              |       |    |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 50.0  | 1  |                | 02/19/16 20:20 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 0.10  | 1  |                | 02/19/16 20:20 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 1.0          | 0.25  | 1  |                | 02/19/16 20:20 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 50.0  | 1  |                | 02/19/16 20:20 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 3.6   | 1  |                | 02/19/16 20:20 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 1.9   | 1  |                | 02/19/16 20:20 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 1.0          | 0.24  | 1  |                | 02/19/16 20:20 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 1.0          | 0.12  | 1  |                | 02/19/16 20:20 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200          | 33.0  | 1  |                | 02/19/16 20:20 | 64-17-5     | L3   |
| Ethylbenzene                 | ND      | ug/L   | 1.0          | 0.30  | 1  |                | 02/19/16 20:20 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 0.070 | 1  |                | 02/19/16 20:20 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 1.0          | 0.21  | 1  |                | 02/19/16 20:20 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L   | 1.0          | 0.24  | 1  |                | 02/19/16 20:20 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 1.0          | 0.26  | 1  |                | 02/19/16 20:20 | 108-88-3    |      |
| Xylene (Total)               | ND      | ug/L   | 2.0          | 0.66  | 1  |                | 02/19/16 20:20 | 1330-20-7   |      |
| m&p-Xylene                   | ND      | ug/L   | 2.0          | 0.66  | 1  |                | 02/19/16 20:20 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 1.0          | 0.23  | 1  |                | 02/19/16 20:20 | 95-47-6     |      |
| <b>Surrogates</b>            |         |  |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)     | 97      | %  | 70-130       |       | 1  |                | 02/19/16 20:20 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 104     | %  | 70-130       |       | 1  |                | 02/19/16 20:20 | 17060-07-0  |      |
| Toluene-d8 (S)               | 103     | %  | 70-130       |       | 1  |                | 02/19/16 20:20 | 2037-26-5   |      |

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**ANALYTICAL RESULTS**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

Sample: 09383 SCURRY POST-GAC Lab ID: 92287090005 Collected: 02/16/16 13:25 Received: 02/18/16 11:42 Matrix Water

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No      | Qual  |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|-------|
| <b>8011 GCS EDB and DBCP</b>                             |         |       |              |       |    |                |                |             |       |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |       |
| 1,2-Dibromoethane (EDB)                                  | ND      | ug/L  | 0.020        | 0.020 | 1  | 02/23/16 14:01 | 02/24/16 10:33 | 106-93-4    |       |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |       |
| 1-Chloro-2-bromopropane (S)                              | 87      | %     | 60-140       |       | 1  | 02/23/16 14:01 | 02/24/16 10:33 | 301-79-56   |       |
| <b>8260 MSV Low Level SC</b>                             |         |       |              |       |    |                |                |             |       |
| Analytical Method: EPA 8260                              |         |       |              |       |    |                |                |             |       |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 02/19/16 20:54 | 75-85-4     |       |
| tert-Amylmethyl ether                                    | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 02/19/16 20:54 | 994-05-8    |       |
| Benzene  | ND      | ug/L  | 1.0          | 0.25  | 1  |                | 02/19/16 20:54 | 71-43-2     |       |
| 3,3-Dimethyl-1-Butanol                                   | ND      | ug/L  | 100          | 50.0  | 1  |                | 02/19/16 20:54 | 624-95-3    |       |
| tert-Butyl Alcohol                                       | ND      | ug/L  | 100          | 3.6   | 1  |                | 02/19/16 20:54 | 75-65-0     | M1    |
| tert-Butyl Formate                                       | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 02/19/16 20:54 | 762-75-4    | M1    |
| 1,2-Dichloroethane                                       | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 02/19/16 20:54 | 107-06-2    |       |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 02/19/16 20:54 | 108-20-3    |       |
| Ethanol  | ND      | ug/L  | 200          | 33.0  | 1  |                | 02/19/16 20:54 | 64-17-5     | L3,M0 |
| Ethylbenzene   | ND      | ug/L  | 1.0          | 0.30  | 1  |                | 02/19/16 20:54 | 100-41-4    |       |
| Ethyl-tert-butyl ether                                   | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 02/19/16 20:54 | 637-92-3    |       |
| Methyl-tert-butyl ether                                  | ND      | ug/L  | 1.0          | 0.21  | 1  |                | 02/19/16 20:54 | 1634-04-4   |       |
| Naphthalene  | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 02/19/16 20:54 | 91-20-3     |       |
| Toluene  | ND      | ug/L  | 1.0          | 0.26  | 1  |                | 02/19/16 20:54 | 108-88-3    |       |
| Xylene (Total)   | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 02/19/16 20:54 | 1330-20-7   |       |
| m&p-Xylene   | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 02/19/16 20:54 | 179601-23-1 |       |
| o-Xylene   | ND      | ug/L  | 1.0          | 0.23  | 1  |                | 02/19/16 20:54 | 95-47-6     |       |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |       |
| 4-Bromofluorobenzene (S)                                 | 97      | %     | 70-130       |       | 1  |                | 02/19/16 20:54 | 460-00-4    |       |
| 1,2-Dichloroethane-d4 (S)                                | 103     | %     | 70-130       |       | 1  |                | 02/19/16 20:54 | 17060-07-0  |       |
| Toluene-d8 (S)   | 105     | %     | 70-130       |       | 1  |                | 02/19/16 20:54 | 2037-26-5   |       |

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**ANALYTICAL RESULTS**

Project 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

Sample: 09383 FIELD BLANK Lab ID: 92287090006 Collected: 02/16/16 13:30 Received: 02/18/16 11:42 Matrix: Water

| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No      | Qual |
|---|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b>                            |         |       |              |       |    |                |                |             |      |
| Analytical Method EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                 | ND      | ug/L  | 0.019        | 0.019 | 1  | 02/23/16 14:02 | 02/24/16 14:47 | 106-93-4    |      |
| <b>Surrogates</b>                                       |         |       |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)                             | 126     | %     | 60-140       |       | 1  | 02/23/16 14:02 | 02/24/16 14:47 | 301-79-56   |      |
| <b>8260 MSV</b>   |         |       |              |       |    |                |                |             |      |
| Analytical Method EPA 8260                              |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol                                       | ND      | ug/L  | 100          | 76.8  | 1  |                | 02/20/16 05:57 | 75-85-4     |      |
| tert-Amylmethyl ether                                   | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 02/20/16 05:57 | 994-05-8    |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 02/20/16 05:57 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol                                  | ND      | ug/L  | 100          | 32.1  | 1  |                | 02/20/16 05:57 | 624-95-3    |      |
| tert-Butyl Alcohol                                      | ND      | ug/L  | 100          | 57.7  | 1  |                | 02/20/16 05:57 | 75-65-0     |      |
| tert-Butyl Formate                                      | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 02/20/16 05:57 | 762-75-4    |      |
| 1,2-Dichloroethane                                      | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 02/20/16 05:57 | 107-06-2    |      |
| Diisopropyl ether                                       | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 02/20/16 05:57 | 108-20-3    |      |
| Ethanol   | ND      | ug/L  | 200          | 138   | 1  |                | 02/20/16 05:57 | 64-17-5     |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 02/20/16 05:57 | 100-41-4    |      |
| Ethyl-tert-butyl ether                                  | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 02/20/16 05:57 | 637-92-3    |      |
| Methyl-tert-butyl ether                                 | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 02/20/16 05:57 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 02/20/16 05:57 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 02/20/16 05:57 | 108-88-3    |      |
| Xylene (Total)  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 02/20/16 05:57 | 1330-20-7   |      |
| m&p-Xylene  | ND      | ug/L  | 10.0         | 3.1   | 1  |                | 02/20/16 05:57 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 02/20/16 05:57 | 95-47-6     |      |
| <b>Surrogates</b>                                       |         |       |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                | 102     | %     | 70-130       |       | 1  |                | 02/20/16 05:57 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)                               | 101     | %     | 70-130       |       | 1  |                | 02/20/16 05:57 | 17060-07-0  |      |
| Toluene-d8 (S)  | 101     | %     | 70-130       |       | 1  |                | 02/20/16 05:57 | 2037-26-5   |      |

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**ANALYTICAL RESULTS**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No. 92287090

Sample: 09383 TRIP BLANK Lab ID: 92287090007 Collected 02/16/16 13:35 Received: 02/18/16 11 42 Matrix: Water

| Parameters                  | Results | Units | Report Limit | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |              |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |              |      |    |          |                |             |      |
| tert-Amyl Alcohol           | ND      | ug/L  | 100          | 76.8 | 1  |          | 02/20/16 06:15 | 75-85-4     |      |
| tert-Amylmethyl ether       | ND      | ug/L  | 10.0         | 3.4  | 1  |          | 02/20/16 06:15 | 994-05-8    |      |
| Benzene                     | ND      | ug/L  | 5.0          | 1.7  | 1  |          | 02/20/16 06:15 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol      | ND      | ug/L  | 100          | 32.1 | 1  |          | 02/20/16 06:15 | 624-95-3    |      |
| tert-Butyl Alcohol          | ND      | ug/L  | 100          | 57.7 | 1  |          | 02/20/16 06:15 | 75-65-0     |      |
| tert-Butyl Formate          | ND      | ug/L  | 50.0         | 7.3  | 1  |          | 02/20/16 06:15 | 762-75-4    |      |
| 1,2-Dichloroethane          | ND      | ug/L  | 5.0          | 1.8  | 1  |          | 02/20/16 06:15 | 107-06-2    |      |
| Diisopropyl ether           | ND      | ug/L  | 5.0          | 1.7  | 1  |          | 02/20/16 06:15 | 108-20-3    |      |
| Ethanol                     | ND      | ug/L  | 200          | 138  | 1  |          | 02/20/16 06:15 | 64-17-5     |      |
| Ethylbenzene                | ND      | ug/L  | 5.0          | 1.6  | 1  |          | 02/20/16 06:15 | 100-41-4    |      |
| Ethyl-tert-butyl ether      | ND      | ug/L  | 10.0         | 3.6  | 1  |          | 02/20/16 06:15 | 637-92-3    |      |
| Methyl-tert-butyl ether     | ND      | ug/L  | 5.0          | 1.7  | 1  |          | 02/20/16 06:15 | 1634-04-4   |      |
| Naphthalene                 | ND      | ug/L  | 5.0          | 2.0  | 1  |          | 02/20/16 06:15 | 91-20-3     |      |
| Toluene                     | ND      | ug/L  | 5.0          | 1.6  | 1  |          | 02/20/16 06:15 | 108-88-3    |      |
| Xylene (Total)              | ND      | ug/L  | 10.0         | 2.7  | 1  |          | 02/20/16 06:15 | 1330-20-7   |      |
| m&p-Xylene                  | ND      | ug/L  | 10.0         | 3.1  | 1  |          | 02/20/16 06:15 | 179601-23-1 |      |
| o-Xylene                    | ND      | ug/L  | 5.0          | 1.6  | 1  |          | 02/20/16 06:15 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |              |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 101     | %     | 70-130       |      | 1  |          | 02/20/16 06:15 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %     | 70-130       |      | 1  |          | 02/20/16 06:15 | 17060-07-0  |      |
| Toluene-d8 (S)              | 100     | %     | 70-130       |      | 1  |          | 02/20/16 06:15 | 2037-26-5   |      |

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### QUALITY CONTROL DATA

Project: 07960/51973 378 TRUCK STOP  
Pace Project No. 92287090

QC Batch: MSV/35643 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92287090001, 92287090002, 92287090003, 92287090004, 92287090005

METHOD BLANK: 1670010 Matrix: Water  
Associated Lab Samples: 92287090001, 92287090002, 92287090003, 92287090004, 92287090005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 1.0             | 0.24  | 02/19/16 11:17 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 50.0  | 02/19/16 11:17 |            |
| Benzene                   | ug/L  | ND           | 1.0             | 0.25  | 02/19/16 11:17 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.12  | 02/19/16 11:17 |            |
| Ethanol                   | ug/L  | ND           | 200             | 33.0  | 02/19/16 11:17 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 0.070 | 02/19/16 11:17 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 0.30  | 02/19/16 11:17 |            |
| m&p-Xylene                | ug/L  | ND           | 2.0             | 0.66  | 02/19/16 11:17 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 1.0             | 0.21  | 02/19/16 11:17 |            |
| Naphthalene               | ug/L  | ND           | 1.0             | 0.24  | 02/19/16 11:17 |            |
| o-Xylene                  | ug/L  | ND           | 1.0             | 0.23  | 02/19/16 11:17 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 50.0  | 02/19/16 11:17 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 0.10  | 02/19/16 11:17 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 3.6   | 02/19/16 11:17 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 1.9   | 02/19/16 11:17 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 0.26  | 02/19/16 11:17 |            |
| Xylene (Total)            | ug/L  | ND           | 2.0             | 0.66  | 02/19/16 11:17 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102          | 70-130          |       | 02/19/16 11:17 |            |
| 4-Bromofluorobenzene (S)  | %     | 96           | 70-130          |       | 02/19/16 11:17 |            |
| Toluene-d8 (S)            | %     | 104          | 70-130          |       | 02/19/16 11:17 |            |

LABORATORY CONTROL SAMPLE: 1670011

| Parameter               | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50         | 51.5       | 103       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000       | 1060       | 106       | 70-130       |            |
| Benzene                 | ug/L  | 50         | 47.2       | 94        | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50         | 51.9       | 104       | 70-130       |            |
| Ethanol                 | ug/L  | 2000       | 3380       | 169       | 70-130 LO    |            |
| Ethyl-tert-butyl ether  | ug/L  | 100        | 96.0       | 96        | 70-130       |            |
| Ethylbenzene            | ug/L  | 50         | 47.0       | 94        | 70-130       |            |
| m&p-Xylene              | ug/L  | 100        | 93.4       | 93        | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50         | 48.9       | 98        | 70-130       |            |
| Naphthalene             | ug/L  | 50         | 46.0       | 92        | 70-130       |            |
| o-Xylene                | ug/L  | 50         | 45.2       | 90        | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000       | 1010       | 101       | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100        | 92.0       | 92        | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500        | 642        | 128       | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400        | 393        | 98        | 70-130       |            |
| Toluene                 | ug/L  | 50         | 47.0       | 94        | 70-130       |            |

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**QUALITY CONTROL DATA**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.: 92287090

LABORATORY CONTROL SAMPLE: 1670011

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| Xylene (Total)            | ug/L  | 150        | 139        | 92        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 102       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 99        | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 102       | 70-130       |            |

MATRIX SPIKE SAMPLE 1670013

| Parameter                 | Units | 92287090005 Result | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20         | 20.3      | 102      | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400        | 345       | 86       | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20         | 19.9      | 100      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20         | 21.2      | 106      | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800        | 518       | 65       | 70-130       | M0         |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40         | 39.4      | 98       | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20         | 19.6      | 98       | 70-130       |            |
| m&p-Xylene                | ug/L  | ND                 | 40         | 38.9      | 97       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20         | 20.0      | 100      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20         | 18.5      | 93       | 70-130       |            |
| o-Xylene                  | ug/L  | ND                 | 20         | 19.0      | 95       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400        | 375       | 93       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40         | 37.3      | 93       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200        | 310       | 155      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160        | ND        | 0        | 70-130       | M1         |
| Toluene                   | ug/L  | ND                 | 20         | 20.1      | 101      | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |            |           | 104      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |            |           | 98       | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |            |           | 103      | 70-130       |            |

SAMPLE DUPLICATE: 1670012

| Parameter               | Units | 92287090004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane      | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                 | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether       | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                 | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether  | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene            | ug/L  | ND                 | ND         |     | 30      |            |
| m&p-Xylene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene             | ug/L  | ND                 | ND         |     | 30      |            |
| o-Xylene                | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol       | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether   | ug/L  | ND                 | ND         |     | 30      |            |

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**QUALITY CONTROL DATA**

Project: 07960/51973 378 TRUCK STOP  
Pace Project No.: 92287090

SAMPLE DUPLICATE. 1670012

| Parameter                 | Units | 92287090004<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| tert-Butyl Alcohol        | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Butyl Formate        | ug/L  | ND                    | ND            |     | 30         |            |
| Toluene                   | ug/L  | ND                    | ND            |     | 30         |            |
| Xylene (Total)            | ug/L  | ND                    | ND            |     | 30         |            |
| 1,2-Dichloroethane-d4 (S) | %     | 104                   | 103           | 1   |            |            |
| 4-Bromofluorobenzene (S)  | %     | 97                    | 96            | 1   |            |            |
| Toluene-d8 (S)            | %     | 103                   | 103           | 1   |            |            |

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**QUALITY CONTROL DATA**

Project 07960/51973 378 TRUCK STOP  
 Pace Project No.. 92287090

QC Batch: MSV/35641 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples. 92287090006, 92287090007

METHOD BLANK: 1669936 Matrix Water  
 Associated Lab Samples. 92287090006, 92287090007

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 02/20/16 03:37 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 02/20/16 03:37 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 02/20/16 03:37 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 02/20/16 03:37 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 02/20/16 03:37 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 02/20/16 03:37 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 02/20/16 03:37 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 3.1  | 02/20/16 03:37 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 02/20/16 03:37 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 02/20/16 03:37 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 1.6  | 02/20/16 03:37 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 02/20/16 03:37 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 02/20/16 03:37 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 02/20/16 03:37 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 02/20/16 03:37 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 02/20/16 03:37 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 02/20/16 03:37 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102          | 70-130          |      | 02/20/16 03:37 |            |
| 4-Bromofluorobenzene (S)  | %     | 102          | 70-130          |      | 02/20/16 03:37 |            |
| Toluene-d8 (S)            | %     | 101          | 70-130          |      | 02/20/16 03:37 |            |

LABORATORY CONTROL SAMPLE: 1669937

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50          | 44.3       | 89        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000        | 879        | 88        | 70-130       |            |
| Benzene                 | ug/L  | 50          | 45.6       | 91        | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50          | 48.3       | 97        | 70-130       |            |
| Ethanol                 | ug/L  | 2000        | 1620       | 81        | 70-130       |            |
| Ethyl-tert-butyl ether  | ug/L  | 100         | 96.3       | 96        | 70-130       |            |
| Ethylbenzene            | ug/L  | 50          | 43.4       | 87        | 70-130       |            |
| m&p-Xylene              | ug/L  | 100         | 84.0       | 84        | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50          | 51.2       | 102       | 70-130       |            |
| Naphthalene             | ug/L  | 50          | 48.9       | 98        | 70-130       |            |
| o-Xylene                | ug/L  | 50          | 41.6       | 83        | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000        | 834        | 83        | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100         | 92.8       | 93        | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500         | 452        | 90        | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400         | 384        | 96        | 70-130       |            |
| Toluene                 | ug/L  | 50          | 43.3       | 87        | 70-130       |            |

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No. 92287090

LABORATORY CONTROL SAMPLE. 1669937

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Xylene (Total)            | ug/L  | 150         | 126        | 84        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 99        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 70-130       |            |

MATRIX SPIKE SAMPLE. 1669938

| Parameter                 | Units | 92286914011 Result | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20         | 19.8      | 99       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400        | 396       | 99       | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20         | 21.0      | 105      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20         | 21.0      | 105      | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800        | 865       | 108      | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40         | 41.9      | 105      | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20         | 21.0      | 105      | 70-130       |            |
| m&p-Xylene                | ug/L  | ND                 | 40         | 40.6      | 101      | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20         | 21.5      | 107      | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20         | 20.7      | 104      | 70-130       |            |
| o-Xylene                  | ug/L  | ND                 | 20         | 19.8      | 99       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400        | 368       | 92       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40         | 38.8      | 97       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200        | 300       | 149      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160        | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20         | 20.5      | 102      | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |            |           | 103      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |            |           | 100      | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |            |           | 99       | 70-130       |            |

SAMPLE DUPLICATE: 1669939

| Parameter               | Units | 92286914012 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane      | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                 | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether       | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                 | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether  | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene            | ug/L  | ND                 | ND         |     | 30      |            |
| m&p-Xylene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene             | ug/L  | ND                 | ND         |     | 30      |            |
| o-Xylene                | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol       | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether   | ug/L  | ND                 | ND         |     | 30      |            |

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### QUALITY CONTROL DATA

Project: 07960/51973 378 TRUCK STOP  
Pace Project No 92287090

SAMPLE DUPLICATE: 1669939

| Parameter                 | Units | 92286914012<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| tert-Butyl Alcohol        | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Butyl Formate        | ug/L  | ND                    | ND            |     | 30         |            |
| Toluene                   | ug/L  | ND                    | ND            |     | 30         |            |
| Xylene (Total)            | ug/L  | ND                    | ND            |     | 30         |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102                   | 104           | 3   |            |            |
| 4-Bromofluorobenzene (S)  | %     | 101                   | 97            | 5   |            |            |
| Toluene-d8 (S)            | %     | 101                   | 102           | 1   |            |            |

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**QUALITY CONTROL DATA**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No.. 92287090

QC Batch: OEXT/40951 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92287090001, 92287090002, 92287090003, 92287090004, 92287090005

METHOD BLANK 1671200 Matrix: Water  
 Associated Lab Samples: 92287090001, 92287090002, 92287090003, 92287090004, 92287090005

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 02/24/16 01:22 |            |
| 1-Chloro-2-bromopropane (S) | %     | 104          | 60-140          |       | 02/24/16 01:22 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1671201 1671202

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 28         | 0.35       | 0.31        | 124       | 106        | 60-140       | 11  | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 107       | 90         | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671203 1671204

| Parameter                   | Units | 92287080012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | .27            | 27              | 0.31      | 0.32       | 114      | 118       | 60-140       | 3   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 95       | 98        | 60-140       |     |         |      |

SAMPLE DUPLICATE. 1671205

| Parameter                   | Units | 92287080013 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 101                | 95         | 6   |         |            |

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**QUALITY CONTROL DATA**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No : 92287090

|                         |             |                       |                   |
|-------------------------|-------------|-----------------------|-------------------|
| QC Batch                | OEXT/40952  | Analysis Method.      | EPA 8011          |
| QC Batch Method.        | EPA 8011    | Analysis Description. | GCS 8011 EDB DBCP |
| Associated Lab Samples: | 92287090006 |                       |                   |

METHOD BLANK: 1671206  
 Associated Lab Samples 92287090006

Matrix: Water

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.019           | 0.019 | 02/24/16 13:47 |            |
| 1-Chloro-2-bromopropane (S) | %     | 113          | 60-140          |       | 02/24/16 13:47 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1671207

1671208

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 28         | 0.35       | 0.31        | 124       | 112        | 60-140       | 12  | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 106       | 92         | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671209

1671210

| Parameter                   | Units | 92287104001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 28             | 28              | 0.29      | 0.29       | 104      | 106       | 60-140       | 2   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 88       | 87        | 60-140       |     |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project 07960/51973 378 TRUCK STOP  
Pace Project No : 92287090

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
ND - Not Detected at or above adjusted reporting limit.  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit  
RL - Reporting Limit  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.  
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits Analyte presence below reporting limits in associated samples. Results unaffected by high bias.  
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

## REPORT OF LABORATORY ANALYSIS

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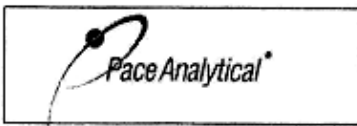
**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 07960/51973 378 TRUCK STOP  
 Pace Project No 92287090

| Lab ID      | Sample ID                | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|--------------------------|-----------------|------------|-------------------|------------------|
| 92287090001 | 09383 GORDON PRE-GAC     | EPA 8011        | OEXT/40951 | EPA 8011          | GCSV/24187       |
| 92287090002 | 09383 GORDON PRE-GAC DUP | EPA 8011        | OEXT/40951 | EPA 8011          | GCSV/24187       |
| 92287090003 | 09383 GORDON POST-GAC    | EPA 8011        | OEXT/40951 | EPA 8011          | GCSV/24187       |
| 92287090004 | 09383 SCURRY PRE-GAC     | EPA 8011        | OEXT/40951 | EPA 8011          | GCSV/24187       |
| 92287090005 | 09383 SCURRY POST-GAC    | EPA 8011        | OEXT/40951 | EPA 8011          | GCSV/24187       |
| 92287090006 | 09383 FIELD BLANK        | EPA 8011        | OEXT/40952 | EPA 8011          | GCSV/24188       |
| 92287090001 | 09383 GORDON PRE-GAC     | EPA 8260        | MSV/35643  |                   |                  |
| 92287090002 | 09383 GORDON PRE-GAC DUP | EPA 8260        | MSV/35643  |                   |                  |
| 92287090003 | 09383 GORDON POST-GAC    | EPA 8260        | MSV/35643  |                   |                  |
| 92287090004 | 09383 SCURRY PRE-GAC     | EPA 8260        | MSV/35643  |                   |                  |
| 92287090005 | 09383 SCURRY POST-GAC    | EPA 8260        | MSV/35643  |                   |                  |
| 92287090006 | 09383 FIELD BLANK        | EPA 8260        | MSV/35641  |                   |                  |
| 92287090007 | 09383 TRIP BLANK         | EPA 8260        | MSV/35641  |                   |                  |

**REPORT OF LABORATORY ANALYSIS**

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Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CHR-CS-003-rev.17**

Document Revised: 26OCT2015  
 Page 1 of 2  
 Issuing Authority:  
 Pace Huntersville Quality Office

Sample Condition  
 Upon Receipt

Client Name: SCDHEC

Project #: **WO# : 92287090**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_

Thermometer Used:  T1505

Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.4  
 Temp should be above freezing to 6°C      Correction Factor: 0.0 °C

Biological Tissue Frozen?  Yes  No  N/A  
 Date and Initials of Person Examining Contents: AP 2-18-16

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  
 Yes  No

If Yes to either question, fill out a Regulated Soil Checklist and include with SCUR/COC paperwork.

|  | COMMENTS:  |
|--|--|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 1.   |
| Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 2.   |
| Chain of Custody Relinquished? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 3.   |
| Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 4.   |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 5.   |
| Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 6.   |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 7.   |
| Sufficient Volume? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 8.   |
| Correct Containers Used? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 9.   |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  |  |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 10.  |
| Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 11. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 12.  |
| -Includes Date/Time/ID/Analysis Matrix: <u>✓</u>   |  |
| All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 13.  |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  |  |
| Samples checked for dechlorization <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 14.  |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A  | 15.  |
| Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 16.  |
| Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   |  |
| Pace Trip Blank Lot # (if purchased): _____  |  |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager SCURF Review: TC / TC

Date: 2/18/16 / 2/19/16



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|   |  |  |              |  |
|---|--|--|--------------|--|
| <b>Section A</b><br>Required Client Information:<br>Company: SCDHEC<br>Address: 2600 BULL STREET<br>COLUMBIA, SC 29201<br>Email To: bryanj@cdhec.sc.gov<br>Phone: 803-898-0606<br>Requested Due Date/TAT: | <b>Section B</b><br>Required Project Information:<br>Report To: JOHN BRYANT<br>Copy To:<br>Purchase Order No.:<br>Project Name: 378 Truck Stop<br>Project Number: SITE ID#07960, PACE CA#51973 | <b>Section C</b><br>Invoice Information:<br>Attention:<br>Company Name:<br>Address:<br>Pace Quote Reference:<br>Pace Project Manager: T. CARTER<br>Pace Profile #: 849-1 | Page: 1 of 1 | <b>REGULATORY AGENCY</b><br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER<br>Site Location: SC<br>STATE: SC |
|---|--|--|--------------|--|

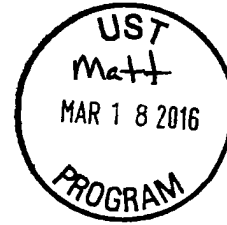
| ITEM # | Section D<br>Required Client Information | Valid Matrix Codes<br>MATRIX CODE | SAMPLE CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |                                 |          |       |  |  | Analysis Test | Requested Analysis Filtered (Y/N) |  |  |  |  |  |  |  |  |  | Residual Chlorine (Y/N) | 92287090<br>Pace Project No./ Lab I.D. |  |  |  |  |  |  |  |
|--------|--|-----------------------------------|---------------------------------------|-----------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---------------------------------|----------|-------|--|--|---------------|-----------------------------------|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--|--|--|--|
|        |  |                                   |                                       |                             | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> SO <sub>3</sub> | Methanol | Other |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
|        |  |                                   |                                       |                             | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 1      | 09383 GORDON PRE-GAC                     | WT                                | G                                     |                             | 2/16/16         | 1145 |                    |      | 6                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 2      | 09383 GORDON PRE-GAC DUP                 | WT                                | G                                     |                             |                 | 1150 |                    |      | 6                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 3      | 09383 GORDON POST-GAC                    | WT                                | G                                     |                             |                 | 1155 |                    |      | 6                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 4      | 09383 SCURRY PRE-GAC                     | WT                                | G                                     |                             |                 | 1320 |                    |      | 6                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 5      | 09383 SCURRY POST-GAC                    | WT                                | G                                     |                             |                 | 1325 |                    |      | 6                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 6      | 09383 FIELD BLANK                        | WT                                | G                                     |                             |                 | 1330 |                    |      | 6                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 7      | 09383 TRIP BLANK                         | WT                                | G                                     |                             |                 | 1335 |                    |      | 2                         |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 8      |  |                                   |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 9      |  |                                   |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 10     |  |                                   |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 11     |  |                                   |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |
| 12     |  |                                   |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |                                 |          |       |  |  |               |                                   |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |

| ADDITIONAL COMMENTS               | RELINQUISHED BY / AFFILIATION | DATE    | TIME  | ACCEPTED BY / AFFILIATION | DATE    | TIME  | SAMPLE CONDITIONS |
|-----------------------------------|-------------------------------|---------|-------|---------------------------|---------|-------|-------------------|
| LOW DETECTION LIMITS ON ITEMS 1-5 | <i>Randi Burk</i>             | 2-17-16 | 11:09 | <i>[Signature]</i>        | 2-17-16 | 10:19 |                   |
|                                   | <i>John John</i>              | 2-18-16 | 1332  | <i>[Signature]</i>        | 2-18-16 | 11:42 | 1.4 ✓ ~ ✓         |

|   |  |  |  |            |                       |                             |                      |
|---|--|--|--|------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b>         |  |  |  | Temp in °C | Received on ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <i>Mike Rivers</i> |  |  |  |            |                       |                             |                      |
| SIGNATURE of SAMPLER: <i>[Signature]</i>  |  |  | DATE Signed (MM/DD/YY): <i>2/16/16</i> |            |                       |                             |                      |



Pace Analytical Services, Inc.  
9800 Kinsey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092



March 11, 2016

Mr. John Bryant  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: COUNTRY STORE 07960/51970  
Pace Project No.: 92288878

Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
Project Manager

Enclosures

cc Ashleigh Thrash, SCHDEC



**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc.  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

## CERTIFICATIONS

Project: COUNTRY STORE 07960/51970  
Pace Project No 92288878

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### Charlotte Certification IDs

9800 Kincey Ave Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification # 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification # E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project COUNTRY STORE 07960/51970  
Pace Project No 92288878

| Lab ID      | Sample ID                 | Matrix | Date Collected | Date Received  |
|-------------|---------------------------|--------|----------------|----------------|
| 92288878001 | 02127 FERRELL PRE GAC     | Water  | 03/03/16 11:35 | 03/04/16 12:14 |
| 92288878002 | 02127 FERRELL PRE GAC DUP | Water  | 03/03/16 11:39 | 03/04/16 12:14 |
| 92288878003 | 02127 FERRELL POST GAC    | Water  | 03/03/16 11:45 | 03/04/16 12:14 |
| 92288878004 | 02127 HONEY CUT PRE GAC   | Water  | 03/03/16 12:30 | 03/04/16 12:14 |
| 92288878005 | 02127 HONEY CUT POST GAC  | Water  | 03/03/16 12:35 | 03/04/16 12:14 |
| 92288878006 | 02127 FIELD BLANK         | Water  | 03/03/16 12:40 | 03/04/16 12:14 |

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**SAMPLE ANALYTE COUNT**

Project COUNTRY STORE 07960/51970  
 Pace Project No.: 92288878

| Lab ID      | Sample ID                 | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------------|----------|----------|-------------------|------------|
| 92288878001 | 02127 FERRELL PRE GAC     | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                           | EPA 8260 | CCL      | 20                | PASI-C     |
| 92288878002 | 02127 FERRELL PRE GAC DUP | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                           | EPA 8260 | CCL      | 20                | PASI-C     |
| 92288878003 | 02127 FERRELL POST GAC    | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                           | EPA 8260 | CCL      | 20                | PASI-C     |
| 92288878004 | 02127 HONEY CUT PRE GAC   | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                           | EPA 8260 | CCL      | 20                | PASI-C     |
| 92288878005 | 02127 HONEY CUT POST GAC  | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                           | EPA 8260 | CCL      | 20                | PASI-C     |
| 92288878006 | 02127 FIELD BLANK         | EPA 8011 | HSK      | 2                 | PASI-C     |
|             |                           | EPA 8260 | CCL      | 20                | PASI-C     |

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**SUMMARY OF DETECTION**

Project COUNTRY STORE 07960/51970  
 Pace Project No 92288878

| Lab Sample ID<br>Method | Client Sample ID<br>Parameters   | Result | Units | Report Limit | Analyzed       | Qualifiers |
|-------------------------|----------------------------------|--------|-------|--------------|----------------|------------|
| <b>92288878001</b>      | <b>02127 FERRELL PRE GAC</b>     |        |       |              |                |            |
| EPA 8011                | 1,2-Dibromoethane (EDB)          | 16.7   | ug/L  | 0.97         | 03/10/16 11:01 |            |
| EPA 8260                | tert-Amyl Alcohol                | 174    | ug/L  | 100          | 03/08/16 02:12 |            |
| EPA 8260                | Benzene                          | 84.1   | ug/L  | 5.0          | 03/08/16 02:12 |            |
| EPA 8260                | Naphthalene                      | 21.3   | ug/L  | 5.0          | 03/08/16 02:12 |            |
| EPA 8260                | Xylene (Total)                   | 12.5   | ug/L  | 10.0         | 03/08/16 02:12 |            |
| EPA 8260                | o-Xylene                         | 12.5   | ug/L  | 5.0          | 03/08/16 02:12 |            |
| <b>92288878002</b>      | <b>02127 FERRELL PRE GAC DUP</b> |        |       |              |                |            |
| EPA 8011                | 1,2-Dibromoethane (EDB)          | 0.050  | ug/L  | 0.020        | 03/08/16 23:53 |            |
| EPA 8260                | tert-Amyl Alcohol                | 156    | ug/L  | 100          | 03/08/16 02:29 |            |
| EPA 8260                | Benzene                          | 33.7   | ug/L  | 5.0          | 03/08/16 02:29 |            |
| EPA 8260                | Naphthalene                      | 16.4   | ug/L  | 5.0          | 03/08/16 02:29 |            |
| EPA 8260                | Xylene (Total)                   | 6.9J   | ug/L  | 10.0         | 03/08/16 02:29 |            |
| EPA 8260                | o-Xylene                         | 6.9    | ug/L  | 5.0          | 03/08/16 02:29 |            |
| <b>92288878004</b>      | <b>02127 HONEY CUT PRE GAC</b>   |        |       |              |                |            |
| EPA 8011                | 1,2-Dibromoethane (EDB)          | 0.079  | ug/L  | 0.020        | 03/09/16 00:33 |            |
| EPA 8260                | tert-Amyl Alcohol                | 201    | ug/L  | 100          | 03/08/16 03:03 |            |
| EPA 8260                | Benzene                          | 8.4    | ug/L  | 5.0          | 03/08/16 03:03 |            |
| EPA 8260                | 1,2-Dichloroethane               | 2.6J   | ug/L  | 5.0          | 03/08/16 03:03 |            |

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**ANALYTICAL RESULTS**

Project: COUNTRY STORE 07960/51970  
 Pace Project No.: 92288878

| Sample: 02127 FERRELL PRE GAC Lab ID: 92288878001 Collected 03/03/16 11 35 Received 03/04/16 12 14 Matrix Water |         |       |              |      |    |                |                |             |      |
|---|---------|-------|--------------|------|----|----------------|----------------|-------------|------|
| Parameters  | Results | Units | Report Limit | MDL  | DF | Prepared       | Analyzed       | CAS No      | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method EPA 8011                            |         |       |              |      |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)   | 16.7    | ug/L  | 0.97         | 0.97 | 50 | 03/08/16 14 24 | 03/10/16 11:01 | 106-93-4    |      |
| <b>Surrogates</b>   |         |       |              |      |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)   | 0       | %     | 60-140       |      | 50 | 03/08/16 14:24 | 03/10/16 11:01 | 301-79-56   | S4   |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |      |    |                |                |             |      |
| tert-Amyl Alcohol   | 174     | ug/L  | 100          | 76.8 | 1  |                | 03/08/16 02 12 | 75-85-4     |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.4  | 1  |                | 03/08/16 02 12 | 994-05-8    |      |
| Benzene   | 84.1    | ug/L  | 5.0          | 1.7  | 1  |                | 03/08/16 02:12 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 32.1 | 1  |                | 03/08/16 02:12 | 624-95-3    |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 57.7 | 1  |                | 03/08/16 02 12 | 75-65-0     |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 7.3  | 1  |                | 03/08/16 02 12 | 762-75-4    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.8  | 1  |                | 03/08/16 02 12 | 107-06-2    |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 1.7  | 1  |                | 03/08/16 02.12 | 108-20-3    |      |
| Ethanol   | ND      | ug/L  | 200          | 138  | 1  |                | 03/08/16 02:12 | 64-17-5     | L3   |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.6  | 1  |                | 03/08/16 02:12 | 100-41-4    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.6  | 1  |                | 03/08/16 02 12 | 637-92-3    |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 1.7  | 1  |                | 03/08/16 02 12 | 1634-04-4   |      |
| Naphthalene   | 21.3    | ug/L  | 5.0          | 2.0  | 1  |                | 03/08/16 02.12 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.6  | 1  |                | 03/08/16 02:12 | 108-88-3    |      |
| Xylene (Total)  | 12.5    | ug/L  | 10.0         | 2.7  | 1  |                | 03/08/16 02 12 | 1330-20-7   |      |
| m&p-Xylene  | ND      | ug/L  | 10.0         | 3.1  | 1  |                | 03/08/16 02 12 | 179601-23-1 |      |
| o-Xylene  | 12.5    | ug/L  | 5.0          | 1.6  | 1  |                | 03/08/16 02 12 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |              |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)  | 99      | %     | 70-130       |      | 1  |                | 03/08/16 02 12 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %     | 70-130       |      | 1  |                | 03/08/16 02 12 | 17060-07-0  |      |
| Toluene-d8 (S)  | 99      | %     | 70-130       |      | 1  |                | 03/08/16 02 12 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project COUNTRY STORE 07960/51970  
 Pace Project No 92288878

Sample: 02127 FERRELL PRE GAC Lab ID: 92288878002 Collected: 03/03/16 11:39 Received 03/04/16 12:14 Matrix: Water  
 DUP

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b>                             |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                  | 0.050   | ug/L  | 0.020        | 0.020 | 1  | 03/08/16 14:24 | 03/08/16 23:53 | 106-93-4    |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)                              | 117     | %     | 60-140       |       | 1  | 03/08/16 14:24 | 03/08/16 23:53 | 301-79-56   |      |
| <b>8260 MSV</b>  |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8260                              |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol  | 156     | ug/L  | 100          | 76.8  | 1  |                | 03/08/16 02:29 | 75-85-4     |      |
| tert-Amylmethyl ether                                    | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 03/08/16 02:29 | 994-05-8    |      |
| Benzene  | 33.7    | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 02:29 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol                                   | ND      | ug/L  | 100          | 32.1  | 1  |                | 03/08/16 02:29 | 624-95-3    |      |
| tert-Butyl Alcohol                                       | ND      | ug/L  | 100          | 57.7  | 1  |                | 03/08/16 02:29 | 75-65-0     |      |
| tert-Butyl Formate                                       | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 03/08/16 02:29 | 762-75-4    |      |
| 1,2-Dichloroethane                                       | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 03/08/16 02:29 | 107-06-2    |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 02:29 | 108-20-3    |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 03/08/16 02:29 | 64-17-5     | L3   |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 02:29 | 100-41-4    |      |
| Ethyl-tert-butyl ether                                   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 03/08/16 02:29 | 637-92-3    |      |
| Methyl-tert-butyl ether                                  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 02:29 | 1634-04-4   |      |
| Naphthalene  | 16.4    | ug/L  | 5.0          | 2.0   | 1  |                | 03/08/16 02:29 | 91-20-3     |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 02:29 | 108-88-3    |      |
| Xylene (Total)   | 6.9J    | ug/L  | 10.0         | 2.7   | 1  |                | 03/08/16 02:29 | 1330-20-7   |      |
| m&p-Xylene   | ND      | ug/L  | 10.0         | 3.1   | 1  |                | 03/08/16 02:29 | 179601-23-1 |      |
| o-Xylene   | 6.9     | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 02:29 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                 | 100     | %     | 70-130       |       | 1  |                | 03/08/16 02:29 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)                                | 104     | %     | 70-130       |       | 1  |                | 03/08/16 02:29 | 17060-07-0  |      |
| Toluene-d8 (S)   | 102     | %     | 70-130       |       | 1  |                | 03/08/16 02:29 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project COUNTRY STORE 07960/51970  
 Pace Project No 92288878

**Sample:** 02127 FERRELL POST GAC      **Lab ID:** 92288878003      Collected: 03/03/16 11:45      Received: 03/04/16 12:14      Matrix: Water

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No      | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b> Analytical Method EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 03/08/16 14 24 | 03/09/16 00:13 | 106-93-4    |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)  | 117     | %     | 60-140       |       | 1  | 03/08/16 14 24 | 03/09/16 00 13 | 301-79-56   |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 03/08/16 02 46 | 75-85-4     |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 03/08/16 02 46 | 994-05-8    |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 02.46 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 32.1  | 1  |                | 03/08/16 02:46 | 624-95-3    |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 57.7  | 1  |                | 03/08/16 02:46 | 75-65-0     |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 03/08/16 02:46 | 762-75-4    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 03/08/16 02 46 | 107-06-2    |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 02 46 | 108-20-3    |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 03/08/16 02.46 | 64-17-5     | L3   |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 02:46 | 100-41-4    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 03/08/16 02:46 | 637-92-3    |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 02 46 | 1634-04-4   |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 03/08/16 02 46 | 91-20-3     |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 02.46 | 108-88-3    |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 03/08/16 02:46 | 1330-20-7   |      |
| m&p-Xylene   | ND      | ug/L  | 10.0         | 3.1   | 1  |                | 03/08/16 02:46 | 179601-23-1 |      |
| o-Xylene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 02 46 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)   | 98      | %     | 70-130       |       | 1  |                | 03/08/16 02 46 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)  | 103     | %     | 70-130       |       | 1  |                | 03/08/16 02:46 | 17060-07-0  |      |
| Toluene-d8 (S)   | 102     | %     | 70-130       |       | 1  |                | 03/08/16 02:46 | 2037-26-5   |      |

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**ANALYTICAL RESULTS**

Project COUNTRY STORE 07960/51970  
 Pace Project No 92288878

Sample: 02127 HONEY CUT PRE Lab ID: 92288878004 Collected 03/03/16 12 30 Received 03/04/16 12:14 Matrix Water  
 GAC

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No      | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b>                             |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                  | 0.079   | ug/L  | 0.020        | 0.020 | 1  | 03/08/16 14:24 | 03/09/16 00:33 | 106-93-4    |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)                              | 115     | %     | 60-140       |       | 1  | 03/08/16 14:24 | 03/09/16 00:33 | 301-79-56   |      |
| <b>8260 MSV</b>  |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8260                              |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol  | 201     | ug/L  | 100          | 76.8  | 1  |                | 03/08/16 03:03 | 75-85-4     |      |
| tert-Amylmethyl ether                                    | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 03/08/16 03:03 | 994-05-8    |      |
| Benzene  | 8.4     | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 03:03 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol                                   | ND      | ug/L  | 100          | 32.1  | 1  |                | 03/08/16 03:03 | 624-95-3    |      |
| tert-Butyl Alcohol                                       | ND      | ug/L  | 100          | 57.7  | 1  |                | 03/08/16 03:03 | 75-65-0     |      |
| tert-Butyl Formate                                       | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 03/08/16 03:03 | 762-75-4    |      |
| 1,2-Dichloroethane                                       | 2.6J    | ug/L  | 5.0          | 1.8   | 1  |                | 03/08/16 03:03 | 107-06-2    |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 03:03 | 108-20-3    |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 03/08/16 03:03 | 64-17-5     | L3   |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 03:03 | 100-41-4    |      |
| Ethyl-tert-butyl ether                                   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 03/08/16 03:03 | 637-92-3    |      |
| Methyl-tert-butyl ether                                  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 03:03 | 1634-04-4   |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 03/08/16 03:03 | 91-20-3     |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 03:03 | 108-88-3    |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 03/08/16 03:03 | 1330-20-7   |      |
| m&p-Xylene   | ND      | ug/L  | 10.0         | 3.1   | 1  |                | 03/08/16 03:03 | 179601-23-1 |      |
| o-Xylene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 03:03 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                 | 99      | %     | 70-130       |       | 1  |                | 03/08/16 03:03 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)                                | 103     | %     | 70-130       |       | 1  |                | 03/08/16 03:03 | 17060-07-0  |      |
| Toluene-d8 (S)   | 100     | %     | 70-130       |       | 1  |                | 03/08/16 03:03 | 2037-26-5   |      |

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**ANALYTICAL RESULTS**

Project: COUNTRY STORE 07960/51970  
 Pace Project No.: 92288878

Sample: 02127 HONEY CUT POST Lab ID: 92288878005 Collected: 03/03/16 12:35 Received 03/04/16 12 14 Matrix Water  
 GAC

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b>                             |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                  | ND      | ug/L  | 0.020        | 0.020 | 1  | 03/08/16 14:26 | 03/09/16 02 13 | 106-93-4    |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 1-Chloro-2-bromopropane (S)                              | 108     | %     | 60-140       |       | 1  | 03/08/16 14 26 | 03/09/16 02 13 | 301-79-56   |      |
| <b>8260 MSV</b>  |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8260                              |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 76.8  | 1  |                | 03/08/16 03:20 | 75-85-4     |      |
| tert-Amylmethyl ether                                    | ND      | ug/L  | 10.0         | 3.4   | 1  |                | 03/08/16 03 20 | 994-05-8    |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 03 20 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol                                   | ND      | ug/L  | 100          | 32.1  | 1  |                | 03/08/16 03 20 | 624-95-3    |      |
| tert-Butyl Alcohol                                       | ND      | ug/L  | 100          | 57.7  | 1  |                | 03/08/16 03:20 | 75-65-0     |      |
| tert-Butyl Formate                                       | ND      | ug/L  | 50.0         | 7.3   | 1  |                | 03/08/16 03:20 | 762-75-4    |      |
| 1,2-Dichloroethane                                       | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 03/08/16 03:20 | 107-06-2    |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 03:20 | 108-20-3    |      |
| Ethanol  | ND      | ug/L  | 200          | 138   | 1  |                | 03/08/16 03 20 | 64-17-5     | L3   |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 03 20 | 100-41-4    |      |
| Ethyl-tert-butyl ether                                   | ND      | ug/L  | 10.0         | 3.6   | 1  |                | 03/08/16 03:20 | 637-92-3    |      |
| Methyl-tert-butyl ether                                  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 03/08/16 03 20 | 1634-04-4   |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 03/08/16 03 20 | 91-20-3     |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 03 20 | 108-88-3    |      |
| Xylene (Total)   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 03/08/16 03 20 | 1330-20-7   |      |
| m&p-Xylene   | ND      | ug/L  | 10.0         | 3.1   | 1  |                | 03/08/16 03 20 | 179601-23-1 |      |
| o-Xylene   | ND      | ug/L  | 5.0          | 1.6   | 1  |                | 03/08/16 03:20 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                 | 98      | %     | 70-130       |       | 1  |                | 03/08/16 03 20 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)                                | 102     | %     | 70-130       |       | 1  |                | 03/08/16 03 20 | 17060-07-0  |      |
| Toluene-d8 (S)   | 101     | %     | 70-130       |       | 1  |                | 03/08/16 03 20 | 2037-26-5   |      |

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**ANALYTICAL RESULTS**

Project COUNTRY STORE 07960/51970  
 Pace Project No. 92288878

| Sample: 02127 FIELD BLANK    |         | Lab ID: 92288878006                                     |              | Collected | 03/03/16 12:40 | Received       | 03/04/16 12 14 | Matrix      | Water |
|------------------------------|---------|---|--------------|-----------|----------------|----------------|----------------|-------------|-------|
| Parameters                   | Results | Units   | Report Limit | MDL       | DF             | Prepared       | Analyzed       | CAS No      | Qual  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method EPA 8011 Preparation Method: EPA 8011 |              |           |                |                |                |             |       |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L  | 0.020        | 0.020     | 1              | 03/08/16 14 26 | 03/09/16 02:33 | 106-93-4    |       |
| <b>Surrogates</b>            |         |   |              |           |                |                |                |             |       |
| 1-Chloro-2-bromopropane (S)  | 97      | %   | 60-140       |           | 1              | 03/08/16 14 26 | 03/09/16 02 33 | 301-79-56   |       |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                             |              |           |                |                |                |             |       |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 76.8      | 1              |                | 03/08/16 10:09 | 75-85-4     |       |
| tert-Amylmethyl ether        | ND      | ug/L  | 10 0         | 3.4       | 1              |                | 03/08/16 10:09 | 994-05-8    |       |
| Benzene                      | ND      | ug/L  | 5 0          | 1.7       | 1              |                | 03/08/16 10:09 | 71-43-2     |       |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 32 1      | 1              |                | 03/08/16 10 09 | 624-95-3    |       |
| tert-Butyl Alcohol           | ND      | ug/L  | 100          | 57.7      | 1              |                | 03/08/16 10 09 | 75-65-0     |       |
| tert-Butyl Formate           | ND      | ug/L  | 50 0         | 7.3       | 1              |                | 03/08/16 10 09 | 762-75-4    |       |
| 1,2-Dichloroethane           | ND      | ug/L  | 5.0          | 1.8       | 1              |                | 03/08/16 10 09 | 107-06-2    |       |
| Diisopropyl ether            | ND      | ug/L  | 5.0          | 1.7       | 1              |                | 03/08/16 10 09 | 108-20-3    |       |
| Ethanol                      | ND      | ug/L  | 200          | 138       | 1              |                | 03/08/16 10 09 | 64-17-5     | L3    |
| Ethylbenzene                 | ND      | ug/L  | 5 0          | 1.6       | 1              |                | 03/08/16 10:09 | 100-41-4    |       |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10.0         | 3.6       | 1              |                | 03/08/16 10:09 | 637-92-3    |       |
| Methyl-tert-butyl ether      | ND      | ug/L  | 5 0          | 1.7       | 1              |                | 03/08/16 10:09 | 1634-04-4   |       |
| Naphthalene                  | ND      | ug/L  | 5 0          | 2.0       | 1              |                | 03/08/16 10 09 | 91-20-3     |       |
| Toluene                      | ND      | ug/L  | 5 0          | 1.6       | 1              |                | 03/08/16 10 09 | 108-88-3    |       |
| Xylene (Total)               | ND      | ug/L  | 10.0         | 2.7       | 1              |                | 03/08/16 10 09 | 1330-20-7   |       |
| m&p-Xylene                   | ND      | ug/L  | 10 0         | 3.1       | 1              |                | 03/08/16 10 09 | 179601-23-1 |       |
| o-Xylene                     | ND      | ug/L  | 5.0          | 1.6       | 1              |                | 03/08/16 10 09 | 95-47-6     |       |
| <b>Surrogates</b>            |         |   |              |           |                |                |                |             |       |
| 4-Bromofluorobenzene (S)     | 98      | %   | 70-130       |           | 1              |                | 03/08/16 10 09 | 460-00-4    |       |
| 1,2-Dichloroethane-d4 (S)    | 102     | %   | 70-130       |           | 1              |                | 03/08/16 10:09 | 17060-07-0  |       |
| Toluene-d8 (S)               | 101     | %   | 70-130       |           | 1              |                | 03/08/16 10:09 | 2037-26-5   |       |

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**QUALITY CONTROL DATA**

Project: COUNTRY STORE 07960/51970  
 Pace Project No: 92288878

QC Batch: MSV/35858 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92288878001, 92288878002, 92288878003, 92288878004, 92288878005

METHOD BLANK: 1680555 Matrix: Water  
 Associated Lab Samples: 92288878001, 92288878002, 92288878003, 92288878004, 92288878005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 03/07/16 19:57 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 03/07/16 19:57 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 03/07/16 19:57 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 03/07/16 19:57 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 03/07/16 19:57 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 03/07/16 19:57 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 03/07/16 19:57 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 3.1  | 03/07/16 19:57 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 03/07/16 19:57 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 03/07/16 19:57 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 1.6  | 03/07/16 19:57 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 03/07/16 19:57 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 03/07/16 19:57 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 03/07/16 19:57 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 03/07/16 19:57 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 03/07/16 19:57 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 03/07/16 19:57 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 100          | 70-130          |      | 03/07/16 19:57 |            |
| 4-Bromofluorobenzene (S)  | %     | 100          | 70-130          |      | 03/07/16 19:57 |            |
| Toluene-d8 (S)            | %     | 100          | 70-130          |      | 03/07/16 19:57 |            |

LABORATORY CONTROL SAMPLE 1680556

| Parameter               | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50         | 42.3       | 85        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000       | 913        | 91        | 70-130       |            |
| Benzene                 | ug/L  | 50         | 47.3       | 95        | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50         | 46.8       | 94        | 70-130       |            |
| Ethanol                 | ug/L  | 2000       | 3360       | 168       | 70-130 L0    |            |
| Ethyl-tert-butyl ether  | ug/L  | 100        | 109        | 109       | 70-130       |            |
| Ethylbenzene            | ug/L  | 50         | 46.5       | 93        | 70-130       |            |
| m&p-Xylene              | ug/L  | 100        | 91.1       | 91        | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50         | 47.0       | 94        | 70-130       |            |
| Naphthalene             | ug/L  | 50         | 47.4       | 95        | 70-130       |            |
| o-Xylene                | ug/L  | 50         | 45.4       | 91        | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000       | 913        | 91        | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100        | 92.3       | 92        | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500        | 456        | 91        | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400        | 396        | 99        | 70-130       |            |
| Toluene                 | ug/L  | 50         | 45.8       | 92        | 70-130       |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project COUNTRY STORE 07960/51970  
 Pace Project No. 92288878

LABORATORY CONTROL SAMPLE 1680556

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| Xylene (Total)            | ug/L  | 150        | 136        | 91        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 97        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 100       | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 99        | 70-130       |            |

MATRIX SPIKE SAMPLE 1680590

| Parameter                 | Units | 92288687004 Result | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND                 | 20         | 18.2      | 91       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                 | 400        | 470       | 118      | 70-130       |            |
| Benzene                   | ug/L  | ND                 | 20         | 20.2      | 101      | 70-130       |            |
| Diisopropyl ether         | ug/L  | ND                 | 20         | 18.8      | 94       | 70-130       |            |
| Ethanol                   | ug/L  | ND                 | 800        | 1180      | 148      | 70-130       | M0         |
| Ethyl-tert-butyl ether    | ug/L  | ND                 | 40         | 44.5      | 111      | 70-130       |            |
| Ethylbenzene              | ug/L  | ND                 | 20         | 20.5      | 102      | 70-130       |            |
| m&p-Xylene                | ug/L  | ND                 | 40         | 40.1      | 100      | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | ND                 | 20         | 19.4      | 97       | 70-130       |            |
| Naphthalene               | ug/L  | ND                 | 20         | 19.4      | 97       | 70-130       |            |
| o-Xylene                  | ug/L  | ND                 | 20         | 19.6      | 98       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | ND                 | 400        | 437       | 109      | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | ND                 | 40         | 36.5      | 91       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | ND                 | 200        | 340       | 170      | 70-130       | M1         |
| tert-Butyl Formate        | ug/L  | ND                 | 160        | ND        | 0        | 70-130       | P5         |
| Toluene                   | ug/L  | ND                 | 20         | 19.8      | 99       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |            |           | 104      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |            |           | 99       | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |            |           | 99       | 70-130       |            |

SAMPLE DUPLICATE 1680591

| Parameter               | Units | 92288687005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dichloroethane      | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                 | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether       | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                 | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether  | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene            | ug/L  | ND                 | ND         |     | 30      |            |
| m&p-Xylene              | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene             | ug/L  | ND                 | ND         |     | 30      |            |
| o-Xylene                | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol       | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether   | ug/L  | ND                 | ND         |     | 30      |            |

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### QUALITY CONTROL DATA

Project: COUNTRY STORE 07960/51970  
Pace Project No.: 92288878

SAMPLE DUPLICATE 1680591

| Parameter                 | Units | 92288687005<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| tert-Butyl Alcohol        | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Butyl Formate        | ug/L  | ND                    | ND            |     | 30         |            |
| Toluene                   | ug/L  | ND                    | ND            |     | 30         |            |
| Xylene (Total)            | ug/L  | ND                    | ND            |     | 30         |            |
| 1,2-Dichloroethane-d4 (S) | %     | 101                   | 102           | 1   |            |            |
| 4-Bromofluorobenzene (S)  | %     | 97                    | 99            | 1   |            |            |
| Toluene-d8 (S)            | %     | 102                   | 101           | 0   |            |            |

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: COUNTRY STORE 07960/51970  
 Pace Project No 92288878

QC Batch MSV/35859 Analysis Method: EPA 8260  
 QC Batch Method EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples 92288878006

METHOD BLANK 1680565 Matrix Water  
 Associated Lab Samples: 92288878006

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 1.8  | 03/08/16 08:27 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 32.1 | 03/08/16 08:27 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 1.7  | 03/08/16 08:27 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 1.7  | 03/08/16 08:27 |            |
| Ethanol                   | ug/L  | ND           | 200             | 138  | 03/08/16 08:27 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.6  | 03/08/16 08:27 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 1.6  | 03/08/16 08:27 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 3.1  | 03/08/16 08:27 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 1.7  | 03/08/16 08:27 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 2.0  | 03/08/16 08:27 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 1.6  | 03/08/16 08:27 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 76.8 | 03/08/16 08:27 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.4  | 03/08/16 08:27 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 57.7 | 03/08/16 08:27 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 7.3  | 03/08/16 08:27 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 1.6  | 03/08/16 08:27 |            |
| Xylene (Total)            | ug/L  | ND           | 10.0            | 2.7  | 03/08/16 08:27 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 102          | 70-130          |      | 03/08/16 08:27 |            |
| 4-Bromofluorobenzene (S)  | %     | 98           | 70-130          |      | 03/08/16 08:27 |            |
| Toluene-d8 (S)            | %     | 101          | 70-130          |      | 03/08/16 08:27 |            |

LABORATORY CONTROL SAMPLE 1680566

| Parameter               | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50         | 41.8       | 84        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000       | 1110       | 111       | 70-130       |            |
| Benzene                 | ug/L  | 50         | 44.9       | 90        | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50         | 44.7       | 89        | 70-130       |            |
| Ethanol                 | ug/L  | 2000       | 2940       | 147       | 70-130 LO    |            |
| Ethyl-tert-butyl ether  | ug/L  | 100        | 106        | 106       | 70-130       |            |
| Ethylbenzene            | ug/L  | 50         | 43.8       | 88        | 70-130       |            |
| m&p-Xylene              | ug/L  | 100        | 86.2       | 86        | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50         | 46.0       | 92        | 70-130       |            |
| Naphthalene             | ug/L  | 50         | 47.6       | 95        | 70-130       |            |
| o-Xylene                | ug/L  | 50         | 42.2       | 84        | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000       | 1220       | 122       | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100        | 89.6       | 90        | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500        | 636        | 127       | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400        | 384        | 96        | 70-130       |            |
| Toluene                 | ug/L  | 50         | 43.4       | 87        | 70-130       |            |

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**QUALITY CONTROL DATA**

Project COUNTRY STORE 07960/51970  
 Pace Project No : 92288878

| LABORATORY CONTROL SAMPLE 1680566 |       | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter                         | Units |             |            |           |              |            |
| Xylene (Total)                    | ug/L  | 150         | 128        | 86        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S)         | %     |             |            | 106       | 70-130       |            |
| 4-Bromofluorobenzene (S)          | %     |             |            | 97        | 70-130       |            |
| Toluene-d8 (S)                    | %     |             |            | 100       | 70-130       |            |

| MATRIX SPIKE SAMPLE 1680567 |       | 92288882011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter                   | Units |                    |             |           |          |              |            |
| 1,2-Dichloroethane          | ug/L  | ND                 | 20          | 18.3      | 91       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol      | ug/L  | ND                 | 400         | 517       | 129      | 70-130       |            |
| Benzene                     | ug/L  | 3.1J               | 20          | 24.1      | 105      | 70-130       |            |
| Diisopropyl ether           | ug/L  | ND                 | 20          | 20.1      | 100      | 70-130       |            |
| Ethanol                     | ug/L  | ND                 | 800         | 1330      | 167      | 70-130       | M0         |
| Ethyl-tert-butyl ether      | ug/L  | ND                 | 40          | 45.6      | 114      | 70-130       |            |
| Ethylbenzene                | ug/L  | 2.0J               | 20          | 23.4      | 107      | 70-130       |            |
| m&p-Xylene                  | ug/L  | ND                 | 40          | 41.7      | 102      | 70-130       |            |
| Methyl-tert-butyl ether     | ug/L  | ND                 | 20          | 19.7      | 99       | 70-130       |            |
| Naphthalene                 | ug/L  | ND                 | 20          | 20.5      | 101      | 70-130       |            |
| o-Xylene                    | ug/L  | ND                 | 20          | 19.8      | 99       | 70-130       |            |
| tert-Amyl Alcohol           | ug/L  | ND                 | 400         | 500       | 125      | 70-130       |            |
| tert-Amylmethyl ether       | ug/L  | ND                 | 40          | 38.1      | 95       | 70-130       |            |
| tert-Butyl Alcohol          | ug/L  | ND                 | 200         | 398       | 199      | 70-130       | M1         |
| tert-Butyl Formate          | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |
| Toluene                     | ug/L  | ND                 | 20          | 20.5      | 102      | 70-130       |            |
| 1,2-Dichloroethane-d4 (S)   | %     |                    |             |           | 102      | 70-130       |            |
| 4-Bromofluorobenzene (S)    | %     |                    |             |           | 99       | 70-130       |            |
| Toluene-d8 (S)              | %     |                    |             |           | 100      | 70-130       |            |

| SAMPLE DUPLICATE 1680568 |       | 92288882012 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter                | Units |                    |            |     |         |            |
| 1,2-Dichloroethane       | ug/L  | ND                 | ND         |     | 30      |            |
| 3,3-Dimethyl-1-Butanol   | ug/L  | ND                 | ND         |     | 30      |            |
| Benzene                  | ug/L  | ND                 | ND         |     | 30      |            |
| Diisopropyl ether        | ug/L  | ND                 | ND         |     | 30      |            |
| Ethanol                  | ug/L  | ND                 | ND         |     | 30      |            |
| Ethyl-tert-butyl ether   | ug/L  | ND                 | ND         |     | 30      |            |
| Ethylbenzene             | ug/L  | ND                 | ND         |     | 30      |            |
| m&p-Xylene               | ug/L  | ND                 | ND         |     | 30      |            |
| Methyl-tert-butyl ether  | ug/L  | ND                 | ND         |     | 30      |            |
| Naphthalene              | ug/L  | ND                 | ND         |     | 30      |            |
| o-Xylene                 | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amyl Alcohol        | ug/L  | ND                 | ND         |     | 30      |            |
| tert-Amylmethyl ether    | ug/L  | ND                 | ND         |     | 30      |            |

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### QUALITY CONTROL DATA

Project COUNTRY STORE 07960/51970  
Pace Project No.: 92288878

SAMPLE DUPLICATE: 1680568

| Parameter                 | Units | 92288882012<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| tert-Butyl Alcohol        | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Butyl Formate        | ug/L  | ND                    | ND            |     | 30         |            |
| Toluene                   | ug/L  | ND                    | ND            |     | 30         |            |
| Xylene (Total)            | ug/L  | ND                    | ND            |     | 30         |            |
| 1,2-Dichloroethane-d4 (S) | %     | 101                   | 103           | 2   |            |            |
| 4-Bromofluorobenzene (S)  | %     | 97                    | 99            | 1   |            |            |
| Toluene-d8 (S)            | %     | 102                   | 101           | 2   |            |            |

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**QUALITY CONTROL DATA**

Project COUNTRY STORE 07960/51970  
 Pace Project No. 92288878

QC Batch. OEXT/41213 Analysis Method: EPA 8011  
 QC Batch Method EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples. 92288878001, 92288878002, 92288878003, 92288878004

METHOD BLANK 1680712 Matrix: Water  
 Associated Lab Samples 92288878001, 92288878002, 92288878003, 92288878004

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 03/08/16 16:14 |            |
| 1-Chloro-2-bromopropane (S) | %     | 122          | 60-140          |       | 03/08/16 16:14 |            |

LABORATORY CONTROL SAMPLE & LCSD 1680713 1680714

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .29        | 0.30       | 0.29        | 104       | 102        | 60-140       | 4   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 96        | 99         | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680715 1680716

| Parameter                   | Units | 92288679035 Result | MS Spike Conc | MSD Spike Conc | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|---------------|----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 28            | .28            | 0.31      | 0.31       | 112      | 112       | 60-140       | 0   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |               |                |           |            | 106      | 107       | 60-140       |     |         |      |

SAMPLE DUPLICATE 1680717

| Parameter                   | Units | 92288679036 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 100                | 104        | 4   |         |            |

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**QUALITY CONTROL DATA**

Project: COUNTRY STORE 07960/51970  
 Pace Project No 92288878

QC Batch: OEXT/41214 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92288878005, 92288878006

METHOD BLANK: 1680718 Matrix: Water  
 Associated Lab Samples: 92288878005, 92288878006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.019           | 0.019 | 03/09/16 01.13 |            |
| 1-Chloro-2-bromopropane (S) | %     | 142          | 60-140          |       | 03/09/16 01.13 | S3         |

LABORATORY CONTROL SAMPLE & LCSD: 1680719 1680720

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 28         | 0.37       | 0.36        | 130       | 130        | 60-140       | 3   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 121       | 121        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680721 1680722

| Parameter                   | Units | 92288882002 Result | MS Spike Conc | MSD Spike Conc | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual  |
|-----------------------------|-------|--------------------|---------------|----------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 28            | .28            | 0.034     | 0.35       | 12       | 124       | 60-140       | 165 | 20      | M1,R1 |
| 1-Chloro-2-bromopropane (S) | %     |                    |               |                |           |            | 123      | 106       | 60-140       |     |         |       |

SAMPLE DUPLICATE 1680723

| Parameter                   | Units | 92288882003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 119                | 117        | 3   |         |            |

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## QUALIFIERS

Project: COUNTRY STORE 07960/51970  
Pace Project No 92288878

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
 ND - Not Detected at or above adjusted reporting limit  
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 MDL - Adjusted Method Detection Limit  
 PQL - Practical Quantitation Limit  
 RL - Reporting Limit.  
 S - Surrogate  
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270 The result for each analyte is a combined concentration  
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
 LCS(D) - Laboratory Control Sample (Duplicate)  
 MS(D) - Matrix Spike (Duplicate)  
 DUP - Sample Duplicate  
 RPD - Relative Percent Difference  
 NC - Not Calculable  
 SG - Silica Gel - Clean-Up  
 U - Indicates the compound was analyzed for, but not detected  
 Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride  
 A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration.  
 Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes  
 TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.  
 L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits Analyte presence below reporting limits in associated samples Results unaffected by high bias  
 M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
 M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
 P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes  
 R1 RPD value was outside control limits.  
 S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples Results unaffected by high bias  
 S4 Surrogate recovery not evaluated against control limits due to sample dilution

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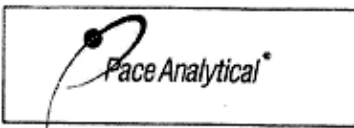
### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COUNTRY STORE 07960/51970  
Pace Project No.: 92288878

| Lab ID      | Sample ID                 | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|---------------------------|-----------------|------------|-------------------|------------------|
| 92288878001 | 02127 FERRELL PRE GAC     | EPA 8011        | OEXT/41213 | EPA 8011          | GCSV/24323       |
| 92288878002 | 02127 FERRELL PRE GAC DUP | EPA 8011        | OEXT/41213 | EPA 8011          | GCSV/24323       |
| 92288878003 | 02127 FERRELL POST GAC    | EPA 8011        | OEXT/41213 | EPA 8011          | GCSV/24323       |
| 92288878004 | 02127 HONEY CUT PRE GAC   | EPA 8011        | OEXT/41213 | EPA 8011          | GCSV/24323       |
| 92288878005 | 02127 HONEY CUT POST GAC  | EPA 8011        | OEXT/41214 | EPA 8011          | GCSV/24325       |
| 92288878006 | 02127 FIELD BLANK         | EPA 8011        | OEXT/41214 | EPA 8011          | GCSV/24325       |
| 92288878001 | 02127 FERRELL PRE GAC     | EPA 8260        | MSV/35858  |                   |                  |
| 92288878002 | 02127 FERRELL PRE GAC DUP | EPA 8260        | MSV/35858  |                   |                  |
| 92288878003 | 02127 FERRELL POST GAC    | EPA 8260        | MSV/35858  |                   |                  |
| 92288878004 | 02127 HONEY CUT PRE GAC   | EPA 8260        | MSV/35858  |                   |                  |
| 92288878005 | 02127 HONEY CUT POST GAC  | EPA 8260        | MSV/35858  |                   |                  |
| 92288878006 | 02127 FIELD BLANK         | EPA 8260        | MSV/35859  |                   |                  |

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Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**F-CHR-CS-003-rev.18**

Document Revised: 18FEB2016  
 Page 1 of 2  
 Issuing Authority:  
 Pace Huntersville Quality Office

Page 2 of 2 for Internal Use ONLY

Sample Condition Upon Receipt

Client Name: SC PHFC

Project #: **WO# : 92288878**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No    Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_

Thermometer:  T1505  \_\_\_\_\_    Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Correction Factor: 0.0°C    Cooler Temp Corrected (°C): 3.3    Biological Tissue Frozen?  Yes  No  N/A

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

Date/Initials Person Examining Contents: AP 3/4/16

|   | COMMENTS:  |
|---|--|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 1.   |
| Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 2.   |
| Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 3.   |
| Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 4.   |
| Samples Arrived within Hold Time? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A  | 5.   |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A  | 6.   |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 7.   |
| Sufficient Volume? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 8.   |
| Correct Containers Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 9.   |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   |  |
| Containers Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 10.  |
| Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A  | 11. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 12.  |
| -Includes Date/Time/ID/Analysis Matrix: <u>wt</u>   |  |
| All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 13.  |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   |  |
| Samples checked for dechlorination <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 14.  |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 15.  |
| Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 16. <u>No TB on 3/4/16</u>                                 |
| Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  |  |
| Pace Trip Blank Lot # (if purchased): _____   |  |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager SCURF Review: TC

Date: 3/4/16

Project Manager SRF Review: TC

Date: 3/4/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|  |  |  |  |  |  |   |  |
|--|--|--|--|--|--|---|--|
| <b>Section A</b><br>Required Client Information: |  | <b>Section B</b><br>Required Project Information:  |  | <b>Section C</b><br>Invoice Information: |  | Page: / of /  |  |
| Company: <u>SCDHEC</u>                           |  | Report To: <u>JOHN BRYANT</u>                      |  | Attention:                               |  | <u>2042612</u>  |  |
| Address: <u>2600 Bullst</u>                      |  | Copy To:   |  | Company Name:                            |  | <b>REGULATORY AGENCY</b>  |  |
| City/State: <u>Columbia S.C. 29201</u>           |  |  |  | Address:                                 |  |   |  |
| Email: <u>Bryant.jc@DHEC.S.C.GOV</u>             |  | Purchase Order No.:                                |  | Pace Quote Reference:                    |  | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> LUST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ |  |
| Phone: <u>803-898-0608</u> Fax:                  |  | Project Name: <u>Lowndes County STP</u>            |  | Pace Project Manager: <u>J. Critch</u>   |  |   | Site Location: _____<br>STATE: <u>S.C.</u> |
| Requested Due Date/TAT:                          |  | Project Number: <u>Site ID 07960 Pace CA 51970</u> |  | Pace Profile #: <u>849-1</u>             |  |   |  |

| ITEM # | SAMPLE ID<br><small>(A-Z, 0-9 / -)</small><br>Sample IDs MUST BE UNIQUE | Matrix Codes<br>MATRIX / CODE<br><small>Drinking Water DW<br/>Water WT<br/>Waste Water WW<br/>Product P<br/>Soil/Solid SL<br/>Oil OL<br/>Wipe WP<br/>Air AR<br/>Tissue TS<br/>Other OT</small> | MATRIX CODE<br><small>(see valid codes to left)</small> | SAMPLE TYPE<br><small>(G=GRAB C=COMP)</small> | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          | Analysis Test<br><small>(Y/N)</small> | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |       |
|--------|---|--|---|---|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|---------------------------------------|-----------------------------------|-------------------------|-------|
|        |   |  |   |   | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> | Methanol |                                       |                                   |                         | Other |
|        |   |  |   |   | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |          |                                       |                                   |                         |       |
| 1      | 02127 Ferrill Pre Gac   | WT   | G   |   | 3-3-16          | 1135 |                    | 3    |                           |                 |               |                                | 3                |     |      |   |          | X                                     |                                   |                         |       |
| 2      | 02127 Ferrill Pre Gac Dup   | WT   | G   |   |                 | 1139 |                    | 3    |                           |                 |               |                                | 3                |     |      |   |          | X                                     |                                   |                         |       |
| 3      | 02127 Ferrill Post Gac  | WT   | G   |   |                 | 1145 |                    | 3    |                           |                 |               |                                | 3                |     |      |   |          | X                                     |                                   |                         |       |
| 4      | 02127 Honey cut Pre Gac   | WT   | G   |   |                 | 1230 |                    | 3    |                           |                 |               |                                | 3                |     |      |   |          | X                                     |                                   |                         |       |
| 5      | 02127 Honey cut Post Gac  | WT   | G   |   |                 | 1235 |                    | 3    |                           |                 |               |                                | 3                |     |      |   |          | X                                     |                                   |                         |       |
| 6      | 02127 Field Blank   | WT   | G   |   | 3-3-16          | 1240 |                    | 63   |                           |                 |               |                                | 3                |     |      |   |          | X                                     |                                   |                         |       |
| 7      | 02127 Trip Blank  | WT   | G   |   | 3-3-16          |      |                    | 2    |                           |                 |               |                                | 2                |     |      |   |          | X                                     |                                   |                         |       |
| 8      |   |  |   |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                       |                                   |                         |       |
| 9      |   |  |   |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                       |                                   |                         |       |
| 10     |   |  |   |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                       |                                   |                         |       |
| 11     |   |  |   |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                       |                                   |                         |       |
| 12     |   |  |   |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                       |                                   |                         |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE   | TIME | ACCEPTED BY / AFFILIATION | DATE   | TIME | SAMPLE CONDITIONS |                       |                      |              |     |   |
|---------------------|-------------------------------|--------|------|---------------------------|--------|------|-------------------|-----------------------|----------------------|--------------|-----|---|
|                     |                               |        |      |                           |        |      | Temp in °C        | Received on Ice (Y/N) | Cooling Spikes (Y/N) | Sealed (Y/N) |     |   |
|                     | Lee Stagner                   | 3-3-16 | 1615 | [Signature]               | 3-3-16 | 1208 |                   |                       |                      |              |     |   |
|                     | [Signature]                   | 3-4-16 | 1314 | [Signature]               | 3-4-16 | 1214 |                   |                       |                      |              | 3-3 | √ |

|          |   |  |            |                       |                      |              |                      |
|----------|---|--|------------|-----------------------|----------------------|--------------|----------------------|
| ORIGINAL | <b>SAMPLER NAME AND SIGNATURE</b><br>PRINT Name of SAMPLER: <u>Lee Stagner</u><br>SIGNATURE of SAMPLER: [Signature] |  | Temp in °C | Received on Ice (Y/N) | Cooling Spikes (Y/N) | Sealed (Y/N) | Samples Intact (Y/N) |
|          | SIGNATURE of SAMPLER: [Signature]   |  |            |                       |                      |              |                      |
|          | DATE Signed (MM/DD/YY): <u>03/03/16</u>   |  |            |                       |                      |              |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month on unpaid invoices not paid within 30 days.



07960 Austin

WILKERSON FUEL COMPANY, INC.  
ROCK HILL, S.C. 29731



January 12, 2017

South Carolina Department of Health  
and Environmental Control  
UST Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, South Carolina 29201

Re: Contractor of Choice  
Wilkerson Fuel Company  
South Carolina Department of Health  
and Environmental Control  
SUBERB Sites

To Whom it May Concern:

The purpose of this correspondence is to notify the South Carolina Department of Health and Environmental Control's (SCDHEC) Underground Storage Tank Section of Wilkerson Fuel Company's (Wilkerson) change in contractor of choice. Effective immediately, Wilkerson selects Geological Resources, Inc. (GRI) as its site rehabilitation for all future work scopes for its SUPERB qualified sites. A listing of sites and associated UST Permit numbers are listed below.

GRI is a SCDHEC registered Site Rehabilitation Contractor (#74). Please be advised that no financial or familial relationship exist between Wilkerson and GRI. Further, Wilkerson requests that payment be made directly to the contractor.

| Site Name         | UST Permit No. | County     |
|-------------------|----------------|------------|
| Pop's Corner      | 02015          | Cherokee   |
| 378 Truck Stop    | 07960          | Edgefield  |
| Black's Grocery   | 07961          | Saluda     |
| Quick C #106      | 09343          | York       |
| Wayne's BP        | 09431          | Dillon     |
| Lawson's BP       | 06999          | Orangeburg |
| Former Crown #664 | 02874          | Dillon     |
| JW Bailey         | 02854          | Dillon     |

All future SUPERB related correspondence pertaining to the referenced sites should be copied to GRI.

Sincerely,

A handwritten signature in black ink, appearing to read "Kim Gwyn", with a long, sweeping horizontal flourish extending to the right.

Kim Gwyn  
Vice President, Wilkerson Fuel

cc: W. Scott Ball, Geological Resources, Inc.





MAY 24 2017

MR FRANK WILKERSON  
WILKERSON FUEL COMPANY INC  
PO BOX 2835  
ROCK HILL SC 29732

Re: **Site-Specific Work Plan (SSWP) Directive for Groundwater Sampling**  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit # 07960  
Release Reported October 03, 1974  
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Geological Resources, Inc., as your contractor. The next appropriate scope of work at the site is a comprehensive groundwater sampling event.

The groundwater sampling event should be conducted in accordance with the most recent revision of the Annual Contractor Quality Assurance Plan (AQAP), Geological Resources, Inc Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. Groundwater samples should be collected from all monitoring wells, water supply wells, or surface water locations associated with the referenced release and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates and EDB. All monitoring wells will need to be purged. A copy of the current revision of the Agency QAPP for the UST Management Division is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

Your contractor must complete the QAPP Contractor addendum or the Site Specific Work Plan (SSWP) if your contractor has an approved ACQAP. The QAPP or SSWP and Cost Proposal must be submitted within 30 days from the date of this letter. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins.**

On all correspondence concerning this site, please reference **UST Permit #07960**. If there are any questions concerning this project, please contact me at (803) 898-7705 or by email at [Johnsoal@dhec.sc.gov](mailto:Johnsoal@dhec.sc.gov).

Sincerely,

Austin Johnson, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110  
Technical File

*114th*  
**UST**  
**DOCKET**

**Legend**

108-00-00-023-000 PARCEL ID  
 --- PARCEL BOUNDARY  
 ☐ WSW-1 WATER SUPPLY WELL  
 ☒ DISCONNECTED WSW  
 ☒ ABANDONED WSW

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan is not to be used for construction or land conveyance purposes.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1304 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704) 955-2711 FAX: (704) 955-2744

PROJECT: 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

TITLE: Site Vicinity Map

CLIENT: Wilkerson Fuel Company, Inc.

DRAWING SCALE: 1" = 250'

COMPUTER CADD FILE: 114th\_ust.dwg

|           |               |             |              |
|-----------|---------------|-------------|--------------|
| DRAWN BY: | INSTALLED BY: | CHECKED BY: | APPROVED BY: |
| CD        | CD            | CD          | CD           |

SCALE: 1" = 250'

DATE: 6/15/10

SHEET NO.: 14-214E10

FIGURE NO.: 2

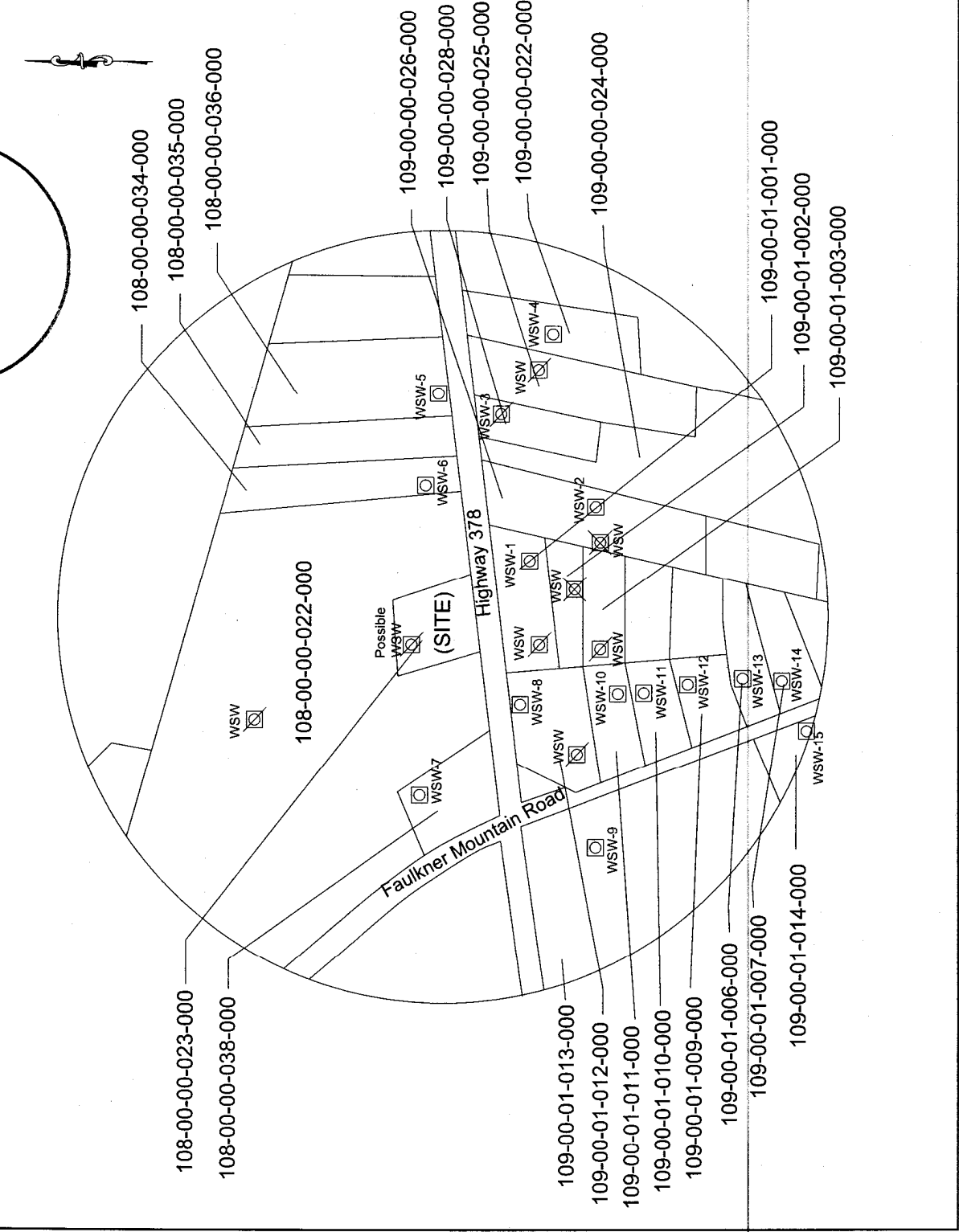


TABLE 1  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES,  
378 TRUCK STOP

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | Edgefield, SC 29824                          | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-7, TW-1, TW-2                                | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | Edgefield, SC 29824                          | 1226 Hwy 378 East, Edgefield, SC 29824       | Disconnected WSW               | MW-8   | Wooded Area around site, has WSW for site.  |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | WSW-6                          | -  | WSW-6 tag info: Date: 9/14/00, Depth: 400 ft  |
| 108-00-00-035-000     | Betsy O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | Horace Baker                                 | 745 Hwy 378 East, Edgefield, SC 29824        | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft  |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | Edgefield, SC 29824                          | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 108-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | MW-18  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods  |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & WSW-3                  | MW-17, MW-19, TW-7, TW-8                                     | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, et al                         | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & WSW-2                  | MW-11 through MW-13, TW-5                                    | WSW-1 tag info: Date: 12/91, Depth: 280 ft  |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-14 and MW-15  | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16 and TW-6   | -   |
| 109-00-01-006-000     | Ulysses Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-13                         | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12                         | -  | -   |
| 109-00-01-010-000     | Michelle Luther Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10 and TW-4   | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 722 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & WSW-9                  | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Joan P. Bowman                               | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

Notes:  
1. Adjacent/adjoining properties are keyed into Figure 2.

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|---------|-------------------|----------------|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|
| WSW-1   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     |
| WSW-2   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-3   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-4   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-5   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-6   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-7   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-8   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 3.6 J       | <5.0               | 9.2            | <0.020     |
| WSW-9   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-10  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-11  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-12  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-13  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     |
| WSW-14  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     |
| WSW-15  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
|         | RBSL <sup>6</sup> | 5              | 1,000          | 700                  | 10,000               | 40          | 25                 | 5              | 0.05       |



**Geological Resources, Inc.**



June 5, 2017

Mr. Austin Johnson  
South Carolina Department of Health  
And Environmental Control  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, South Carolina 29201

Re: GRI Proposal No. 17-353  
Site Specific Work Plan  
378 Truck Stop  
731 Highway 378  
Edgefield, Edgefield County  
UST Permit No. 07960  
GRI Project No. 4422

Dear Mr. Johnson:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Edgefield, Edgefield County, South Carolina.

Please contact me at (704) 845-4010 or by e-mail at [wsb@geologicalresourcesinc.com](mailto:wsb@geologicalresourcesinc.com) if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball  
Senior Project Manager

Enclosures

cc: file

**3502 Hayes Road • Monroe, North Carolina 28110**  
**Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012**



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Austin Johnson (SCDHEC Project Manager)
From: Scott Ball (Contractor Project Manager)
Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: 378 Truck Stop UST Permit #: 07960
Facility Address: 731 Highway 378, Edgefield, Edgefield County, SC
Responsible Party: Wilkerson Fuel Company Phone: (803) 324-4080
RP Address: PO Box 2835, Rock Hill, SC 29732
Property Owner (if different): Old Truck Stop, LLC
Property Owner Address: 102 Faulkner Mountain Road, Edgefield, SC 29824
Current Use of Property: Vacant, unoccupied

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, GAC, Other

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B), Oxygenates (8260B), EDB (8011), PAH (8270D), Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron

Soil:

- BTEXN, PAH, 8 RCRA Metals, Oil & Grease (9071), TPH-DRO (3550B/8015B), TPH-GRO (5030B/8015B), Grain Size, TOC

Air:

- BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Soil 18 Water Supply Wells Air 2 Field Blank
40 Monitoring Wells Surface Water 3 Duplicate 2 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: NA Estimated Footage: feet per point
# of deep points proposed: Estimated Footage: feet per point
Field Screening Methodology:

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: NA Estimated Footage: feet per point
# of deep wells: NA Estimated Footage: feet per point
# of recovery wells: NA Estimated Footage: feet per point
Monitoring Well development method (consistent with SOP):
Comments, if warranted:

UST Permit #: 07960 Facility Name: 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 15 days from approval Field Work Completion: 20 days from approval  
Report Submittal: 60 days from approval # of Copies Provided to Property Owners: 1

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

NA  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: 300 Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Sample monitoring wells MW-1 through MW-31 and TW-1 through TW-9.

All monitoring wells will be purged prior to sample collection and pH, temperature, specific conductivity, dissolved oxygen and turbidity readings collected. Two duplicates, one field blank and one trip blank will be submitted.

MW samples collected will be submitted for analyses of BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by Method 8260 EDB by Method 8011. 15 water supply wells (WSW-1 pre- and post, WSW-2 through WSW-7, WSW-8 pre- and post-, WSW-9 through WSW-15, WSWX. Samples will be analyzed for BTEX, MTBE, naphthalene, 1, 2-DCA by 524.4, 8 oxygenates by 8260 and EDB by 504.1. One sample will be duplicated and one field blank will be collected. One trip blank will be submitted.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.

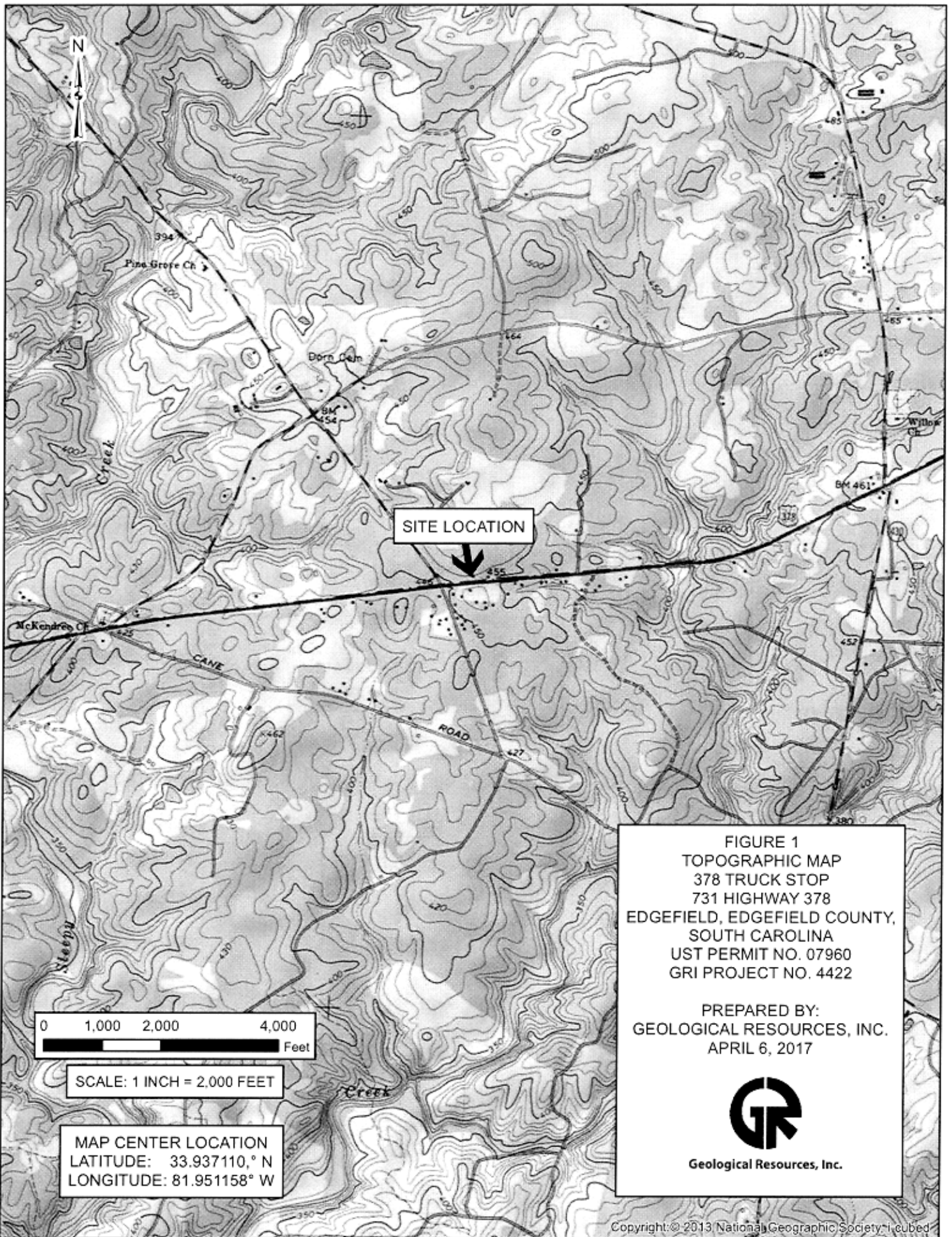
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

NA Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**


1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



SITE LOCATION

FIGURE 1  
TOPOGRAPHIC MAP  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, EDGEFIELD COUNTY,  
SOUTH CAROLINA  
UST PERMIT NO. 07960  
GRI PROJECT NO. 4422

PREPARED BY:  
GEOLOGICAL RESOURCES, INC.  
APRIL 6, 2017



Geological Resources, Inc.

0 1,000 2,000 4,000  
Feet

SCALE: 1 INCH = 2,000 FEET

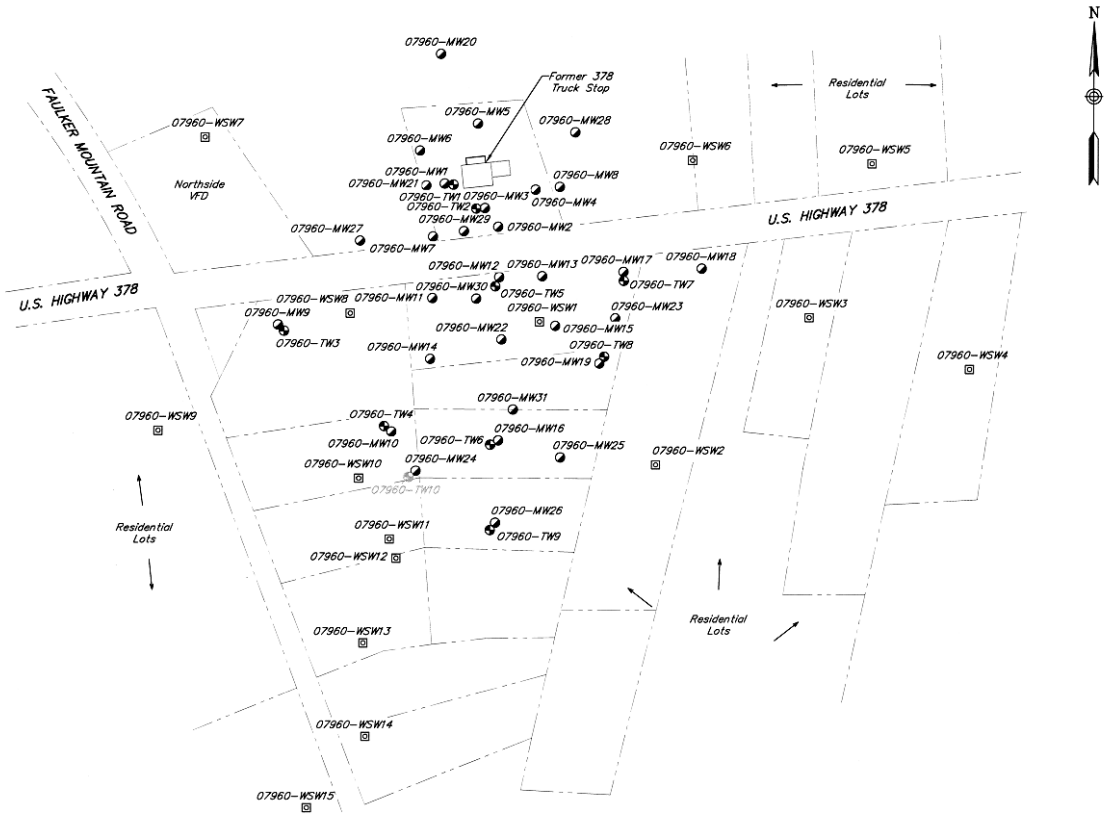
MAP CENTER LOCATION  
LATITUDE: 33.937110° N  
LONGITUDE: 81.951158° W



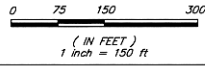
**LEGEND**

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- ABANDONED MONITORING WELL
- WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT

*Note:*  
This Site Map is based on the former consultant's map dated October 17, 2013.



Geological Resources, Inc.



| SITE MAP             |                              |         |   |
|----------------------|------------------------------|---------|---|
| 378 Truck Stop       | 731 Highway 378              |         |   |
| UST Permit No. 07960 | Edgefield, Edgefield County, |         |   |
| GRI Project No. 4422 | SC                           |         |   |
| Date: 04/06/17       | Drawn by: ECH                | Figure: | 2 |



**ASSESSMENT COMPONENT INVOICE**

**SOUTH CAROLINA**

Department of Health and Environmental Control  
 Underground Storage Tank Management Division  
 State Underground Petroleum Environmental Response Bank Account  
 August 16, 2016

Facility Name: 378 Truck Stop

GRI Proposal No. 17-353

UST Permit #: 07960

Cost Agreement #: \_\_\_\_\_

| ITEM   | QUANTITY | UNIT              | UNIT PRICE | TOTAL      |
|--|----------|-------------------|------------|------------|
| <b>1. Plan Preparation</b>   |          |                   |            |            |
| A1. Site-specific Work Plan  | 1        | each              | \$150.00   | \$150.00   |
| B1. Tax Map  |          | each              | \$70.00    | \$0.00     |
| C1. Tier II or Comp. Plan /QAPP Appendix B   |          | each              | \$250.00   | \$0.00     |
| <b>2. A1. Receptor Survey *</b>  |          |                   |            |            |
|  |          | each              | \$551.00   | \$0.00     |
| <b>3. Survey (500 ft x 500 ft)</b>   |          |                   |            |            |
| A1. Comprehensive Survey   |          | each              | \$1,040.00 | \$0.00     |
| <b>B. Subsurface Geophysical Survey</b>  |          |                   |            |            |
| 1B. < 10 meters below grade  |          | each              | \$1,300.00 | \$0.00     |
| 2B. > 10 meters below grade  |          | each              | \$2,310.00 | \$0.00     |
| C1. Geophysical UST or Drum Survey   |          | each              | \$910.00   | \$0.00     |
| <b>4. Mob/Demob</b>  |          |                   |            |            |
| A1. Equipment  |          | each              | \$1,020.00 | \$0.00     |
| B1. Personnel  | 2        | each              | \$423.00   | \$846.00   |
| C1. Adverse Terrain Vehicle  |          | each              | \$500.00   | \$0.00     |
| <b>5. A1. Soil Borings (hand auger)*</b>   |          |                   |            |            |
|  |          | foot              | \$5.00     | \$0.00     |
| <b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b> |          |                   |            |            |
| AA. Standard   |          | per foot          | \$15.00    | \$0.00     |
| C1. Fractured Rock   |          | per foot          | \$20.20    | \$0.00     |
| <b>7. A1. Soil Leachability Model</b>  |          |                   |            |            |
|  |          | each              | \$60.00    | \$0.00     |
| <b>8. Abandonment (per foot)*</b>  |          |                   |            |            |
| A1. 2" diameter or less  |          | per foot          | \$3.10     | \$0.00     |
| B1. Greater than 2" to 6" diameter   |          | per foot          | \$4.50     | \$0.00     |
| C1. Dug/Bored well (up to 6 feet diameter)   |          | per foot          | \$15.00    | \$0.00     |
| <b>9. Well Installation (per foot)*</b>  |          |                   |            |            |
| A1. Water Table (hand augered)   |          | per foot          | \$10.60    | \$0.00     |
| B1. Water Table (drill rig)  |          | per foot          | \$38.00    | \$0.00     |
| CC. Telescoping  |          | per foot          | \$50.00    | \$0.00     |
| DD. Rock Drilling  |          | per foot          | \$58.00    | \$0.00     |
| E1. 2" Rock Coring   |          | per foot          | \$30.90    | \$0.00     |
| G1. Rock Multi-sampling ports/screens  |          | per foot          | \$33.40    | \$0.00     |
| HH. Recovery Well (4" diameter)  |          | per foot          | \$45.00    | \$0.00     |
| II. Pushed Pre-packed screen (1.25" dia)   |          | per foot          | \$15.00    | \$0.00     |
| J1. Rotosonic (2" diameter)  |          | per foot          | \$44.00    | \$0.00     |
| K. Re-develop Existing Well  |          | per foot          | \$11.00    | \$0.00     |
| <b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>   |          |                   |            |            |
| A1. Groundwater Purge  | 40       | per well/receptor | \$60.00    | \$2,400.00 |
| B1. Air or Vapors  |          | per receptor      | \$12.00    | \$0.00     |
| C1. Water Supply   | 18       | per well/receptor | \$22.00    | \$396.00   |
| D1. Groundwater (No Purge or Duplicate)  | 3        | per well/receptor | \$28.00    | \$84.00    |
| E1. Gauge Well only  |          | per well          | \$7.00     | \$0.00     |
| F1. Sample Below Product   |          | per well          | \$12.00    | \$0.00     |
| G1. Passive Diffusion Bag  |          | each              | \$26.00    | \$0.00     |
| H1. Field Blank  | 2        | each              | \$24.60    | \$49.20    |

|   |     |            |          |  |            |
|---|-----|------------|----------|--|------------|
| <b>11. Laboratory Analyses-Groundwater</b>        |     |            |          |  |            |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82)                 | 44  | per sample | \$122.00 |  | \$5,368.00 |
| AA1. Lead, Filtered                               |     | per sample | \$13.80  |  | \$0.00     |
| B2. Rush EPA Method 8260B (All of item A.)        |     | per sample | \$153.60 |  | \$0.00     |
| C2. Trimethal, Butyl, and Isopropyl Benzenes      |     | per sample | \$36.40  |  | \$0.00     |
| D1. PAH's   |     | per sample | \$60.60  |  | \$0.00     |
| E1. Lead  |     | per sample | \$16.00  |  | \$0.00     |
| F1. EDB by EPA 8011                               | 43  | per sample | \$45.20  |  | \$1,943.60 |
| FF1. EDB by EPA Method 8011 Rush                  |     | per sample | \$68.20  |  | \$0.00     |
| G1. 8 RCRA Metals                                 |     | per sample | \$63.40  |  | \$0.00     |
| H1. TPH (9070)                                    |     | per sample | \$41.00  |  | \$0.00     |
| II. pH  |     | per sample | \$5.20   |  | \$0.00     |
| J1. BOD   |     | per sample | \$20.00  |  | \$0.00     |
| PP. Ethanol                                       |     | per sample | \$14.80  |  | \$0.00     |
| <b>11. Analyses-Drinking Water</b>                |     |            |          |  |            |
| L. BTEXNM+1,2 DCA (524.2)                         | 21  | per sample | \$124.05 |  | \$2,605.05 |
| M. 7-OXYGENATES & ETHANOL (8260B)                 | 21  | per sample | \$91.75  |  | \$1,926.75 |
| N. EDB (504.1)                                    | 20  | per sample | \$79.50  |  | \$1,590.00 |
| O. RCRA METALS (200.8)                            |     | per sample | \$100.00 |  | \$0.00     |
| <b>11. Analyses-Soil</b>                          |     |            |          |  |            |
| Q1. BTEX + Naphth.                                |     | per sample | \$64.00  |  | \$0.00     |
| R1. PAH's   |     | per sample | \$64.04  |  | \$0.00     |
| S1. 8 RCRA Metals                                 |     | per sample | \$56.40  |  | \$0.00     |
| U1. TPH-DRO (3550C/8015C)                         |     | per sample | \$40.00  |  | \$0.00     |
| V1. TPH- GRO (5030B/8015C)                        |     | per sample | \$35.96  |  | \$0.00     |
| W1. Grain size/hydrometer                         |     | per sample | \$104.00 |  | \$0.00     |
| X1. Total Organic Carbon                          |     | per sample | \$30.60  |  | \$0.00     |
| <b>11. Analyses-Air</b>                           |     |            |          |  |            |
| Y1. BTEX + Naphthalene                            |     | per sample | \$216.00 |  | \$0.00     |
| <b>11. Analyses-Free Phase Product</b>            |     |            |          |  |            |
| Z1. Hydrocarbon Fuel Identification               |     | per sample | \$357.00 |  | \$0.00     |
| <b>12. Aquifer Characterization</b>               |     |            |          |  |            |
| A1. Pumping Test*                                 |     | per hour   | \$23.00  |  | \$0.00     |
| B1. Slug Test*                                    |     | per test   | \$191.00 |  | \$0.00     |
| C1. Fractured Rock                                |     | per test   | \$100.00 |  | \$0.00     |
| <b>13. A1. Free Product Recovery Rate Test*</b>   |     |            |          |  |            |
|   |     | each       | \$38.00  |  | \$0.00     |
| <b>14. Fate/Transport Modeling</b>                |     |            |          |  |            |
| A1. Mathematical Model                            |     | each       | \$100.00 |  | \$0.00     |
| B1. Computer Model                                |     | each       | \$100.00 |  | \$0.00     |
| <b>15. Risk Evaluation</b>                        |     |            |          |  |            |
| A. Tier I Risk Evaluation                         |     | each       | \$300.00 |  | \$0.00     |
| B1. Tier II Risk Evaluation                       |     | each       | \$100.00 |  | \$0.00     |
| <b>16. A1. Subsequent Survey*</b>                 |     |            |          |  |            |
|   |     | each       | \$260.00 |  | \$0.00     |
| <b>17. Disposal (gallons or tons)*</b>            |     |            |          |  |            |
| AA. Wastewater                                    | 300 | gallon     | \$0.56   |  | \$168.00   |
| BB. Free Product                                  |     | gallon     | \$0.50   |  | \$0.00     |
| C1. Soil Treatment/Disposal                       |     | ton        | \$60.00  |  | \$0.00     |
| D1. Drilling fluids                               |     | gallon     | \$0.42   |  | \$0.00     |
| <b>18. Miscellaneous (attach receipts)</b>        |     |            |          |  |            |
|   |     | each       | \$0.00   |  | \$0.00     |
|   |     | each       | \$0.00   |  | \$0.00     |
|   |     | each       | \$0.00   |  | \$0.00     |
| <b>20. Tier I Assessment (Use DHEC 3665 form)</b> |     |            |          |  |            |
|   |     | standard   |          |  | \$0.00     |
| <b>21. IGWA (Use DHEC 3666 form)</b>              |     |            |          |  |            |
|   |     | standard   |          |  | \$0.00     |
| <b>22. Corrective Action (Use DHEC 3667 form)</b> |     |            |          |  |            |
|   |     | PFP Bid    |          |  | \$0.00     |

|  |     |           |             |  |             |
|--|-----|-----------|-------------|--|-------------|
| <b>23. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>                                |     |           |             |  |             |
| A1. 8-hour Event*  |     | each      | \$1,375.00  |  | \$0.00      |
| AA. 24-hour Event*   |     | each      | \$3,825.00  |  | \$0.00      |
| A3. 48-hour Event*   |     | each      | \$6,265.00  |  | \$0.00      |
| A4. 96-hour Event*   |     | each      | \$12,567.50 |  | \$0.00      |
| C1. Off-gas Treatment 8 hour   |     | per event | \$122.50    |  | \$0.00      |
| C2. Off-gas Treatment 24 hour  |     | per event | \$241.50    |  | \$0.00      |
| C3. Off-gas Treatment 48 hour  |     | per event | \$327.00    |  | \$0.00      |
| C4. Off-gas Treatment 96 hour  |     | per event | \$780.00    |  | \$0.00      |
| D. Site Reconnaissance   |     | each      | \$203.25    |  | \$0.00      |
| E1. Additional Hook-ups  |     | each      | \$25.75     |  | \$0.00      |
| F1. Effluent Disposal  |     | gallon    | \$0.44      |  | \$0.00      |
| G. AFVR Mobilization/Demobilization  |     | each      | \$391.50    |  | \$0.00      |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |           |             |  |             |
| A1. New GAC System Installation*   |     | each      | \$1,900.00  |  | \$0.00      |
| BB. Refurbished GAC Sys. Install*  |     | each      | \$900.00    |  | \$0.00      |
| C1. Filter replacement/removal*  |     | each      | \$350.00    |  | \$0.00      |
| DD. GAC System removal, cleaning, & refurbishment*                                     |     | each      | \$275.00    |  | \$0.00      |
| E1. GAC System housing*  |     | each      | \$250.00    |  | \$0.00      |
| F. In-line particulate filter  |     | each      | \$150.00    |  | \$0.00      |
| G1. Additional piping & fittings   |     | foot      | \$1.50      |  | \$0.00      |
| <b>25. Well Repair</b>   |     |           |             |  |             |
| A1. Additional Copies of the Report Delivered  |     | each      | \$50.00     |  | \$0.00      |
| B1. Repair 2x2 MW pad*   |     | each      | \$50.00     |  | \$0.00      |
| C1. Repair 4x4 MW pad*   |     | each      | \$88.00     |  | \$0.00      |
| D1. Repair well vault*   |     | each      | \$118.00    |  | \$0.00      |
| F1. Replace well cover bolts   |     | each      | \$2.60      |  | \$0.00      |
| G. Replace locking well cap & lock   |     | each      | \$15.00     |  | \$0.00      |
| H1. Replace/Repair stick-up*   |     | each      | \$134.00    |  | \$0.00      |
| II. Convert Flush-mount to Stick-up*   |     | each      | \$150.00    |  | \$0.00      |
| J1. Convert Stick-up to Flush-mount*   |     | each      | \$130.00    |  | \$0.00      |
| K1. Replace missing/illegible well ID plate  |     | each      | \$12.00     |  | \$0.00      |
| <b>Report Prep &amp; Project Coordination</b>  | 12% | percent   | \$17,526.60 |  | \$2,103.19  |
| <b>TOTAL</b>   |     |           |             |  | \$19,629.79 |

\*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC



**FRANK WILKERSON  
WILKERSON OIL COMPANY  
PO BOX 2835  
ROCK HILL SC 29732**

**JUL 27 2017**



**Re: Groundwater Sampling Directive**  
378 Truck Stop, 731 Highway 378, Edgefield, SC  
UST Permit # 07960; CA# 55161  
Release reported October 3, 1974  
Site-Specific Work Plan received June 7, 2017  
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced Site-Specific Work Plan (SSWP) submitted on your behalf by Geological Resources Inc. The next appropriate scope of work at the site is a comprehensive groundwater sampling event. All work should be conducted in accordance with Geological Resources, Inc approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of DHEC UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement # 55161 has been approved for the amount shown on the enclosed cost agreement form for sampling of all monitoring wells associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, EDB and 8 oxygenates.

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activity(ies). If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice are due within 60 days from the date of this letter.** The report submitted at the completion of these activities should include the required information outlined in the ACQAP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Geological Resources, Inc can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from DHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria.

Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual chemicals of concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the ACQAP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit # 07960. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-7705, by fax at (803) 898-0673, or by e-mail at [Johnsoal@dhec.sc.gov](mailto:Johnsoal@dhec.sc.gov).

Sincerely,



Austin Johnson, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Geological Resources, Inc, 3502 Hayes Road, Monroe, NC 28110 (with enc.)  
Technical File (with enc.)

**Approved Cost Agreement**

**55161**

Facility: 07960 378 TRUCK STOP

JOHNSOAL

PO Number:

| <u>Task / Description</u>         | <u>Categories</u>    | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u>   | <u>Amount</u>    |
|-----------------------------------|----------------------|-----------------------------------|------------------|---------------------|------------------|
| 01 PLAN                           |                      | A1 SITE SPECIFIC WORK PLAN        | 1.0000           | \$150.000           | 150.00           |
| 04 MOB/DEMOB                      |                      | B1 PERSONNEL                      | 2.0000           | \$423.000           | 846.00           |
| 10 SAMPLE COLLECTION              |                      | A1 GROUNDWATER (PURGE)            | 40.0000          | \$60.000            | 2,400.00         |
|                                   |                      | C1 WATER SUPPLY                   | 18.0000          | \$22.000            | 396.00           |
|                                   |                      | D1 GROUNDWATER NO PURGE/DUPLICATE | 3.0000           | \$28.000            | 84.00            |
| 11 ANALYSES                       |                      |                                   |                  |                     |                  |
|                                   | GW GROUNDWATER       | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 44.0000          | \$122.000           | 5,368.00         |
|                                   |                      | F1 EDB BY 8011                    | 43.0000          | \$45.200            | 1,943.60         |
|                                   | WATER DRINKING WATER | L BTEXNM+1,2 DCA (524.2)          | 21.0000          | \$124.050           | 2,605.05         |
|                                   |                      | M 7-OXYGENATES & ETHANOL (8260B)  | 21.0000          | \$91.750            | 1,926.75         |
|                                   |                      | N EDB (504.1)                     | 20.0000          | \$79.500            | 1,590.00         |
| 17 DISPOSAL                       |                      | AA WASTEWATER                     | 300.0000         | \$0.560             | 168.00           |
| 19 RPT/PROJECT MNGT & COORDINATIO |                      | PRT REPORT PREPARATION            | 0.1200           | \$17,477.400        | 2,097.29         |
|                                   |                      |                                   |                  | <b>Total Amount</b> | <b>19,574.69</b> |

# News of Environmental Research in Cincinnati

ANALYTICAL  
QUALITY CONTROL

September 14,  
1973

U.S. Environmental Protection Agency

GEOLOGIC STUDIES SECTION  
DIVISION OF DISTRICT SERVICES  
DEPT. OF HEALTH & ENVIRONMENTAL CONTROL

## OIL IDENTIFICATION: STATE OF THE ART

F. K. Kawahara and E. C. Julian\*

### BACKGROUND

Petroleum and its products enter the environment through accidental discharge of wastes, mistakes in the transfer of oil to and from tankers, shipwrecks, and the purging of cargo tanks by sea water treatment. The manufacturing or processing industry and the transportation industry are the main producers of oily wastes. Other sources are individually owned automobiles, boats, and airplanes. The deleterious effects of oil pollutants on the environment are well known — extensive damage to shorelines and beaches, destruction of marine life and the presence in water of toxic agents, noxious odors, and tastes.

As industrial activity continues to expand, the problem of both chronic oil pollution and large, catastrophic spills will occur more and more frequently. Thus, the ability to identify and characterize spilled oil samples in order to determine their source is becoming extremely important. The task is quite difficult, however, since samples are often highly complex mixtures containing several petroleum products. Severe weathering further complicates the matter by superimposing composition and chemical changes to the samples.

Measuring the concentrations of various components and physical and chemical properties of these samples has been the major approach to identification. Such an approach will include the measurements of major components, minor components, trace elements, spectral properties, and physical properties. A final identification step may involve data treatment and the use of statistical methods in data analysis.

\*Both Dr. Kawahara (Group Leader, 513-684-2939) and Mr. Julian (Research Chemist, 513-684-2985) are with the Oil Identification group of the Analytical Quality Control Laboratory.

### STATE OF THE ART

*Sampling Considerations and Treatment.* Oil samples collected from the environment may possess a number of disadvantages. A sample may contain large amounts of water and debris, it may be rather small, and it may have been weathered for some time before collection. Almost all methods will require that the sample be separated from the debris and water before applying any test. All samples, reference and spilled, should be subjected to distillation to 280°C in order to attain uniformity of composition of nonvolatiles.<sup>2,1</sup>

*Physical Bulk Properties.* Physical bulk properties such as asphaltene content, wax content, the congealing point of the wax, and specific gravity should be determined, if possible. These methods, together with others, have been reviewed.<sup>9,21</sup>

*Chemical Bulk Properties.* Chemical bulk properties may serve as a method of sample screening. For example, sulfur and nitrogen analyses are particularly helpful. Two methods, the oxygen flask technique and x-ray fluorescence analysis technique, may be applied to the determination of sulfur. The nitrogen content may be determined by a micro-Kjeldahl or microcoulometric technique. According to Brunnock et al.,<sup>6</sup> the sulfur content in crude oils shows a loss during weathering of about 15 percent. In spite of this loss, oil samples may be classified as "high sulfur" (more than 2% by weight), "medium sulfur" (1%-2% by weight), or "low-sulfur" (less than 1% by weight). There is little information on the effects of weathering on nitrogen content.<sup>32</sup>

*Spectral Properties.* The use of infrared spectroscopy for petroleum identification has been described.<sup>17,19</sup> This method was used for the first identification and characterization case handled by the National Environmental Research Center, Cincinnati, Ohio. The situation involved the large, heavy, residual fuel oil and asphalt

UST Docket

112T



spill that extended 45 miles from Wilmette, Ill., to Gary, Ind., and that contaminated Lake Michigan waters and beaches during September and October 1967.

Samples of beach materials and of lake water were collected from the oil spill area, and the Analytical Quality Control Laboratory (AQCL) of NERC developed a rapid analytical method utilizing infrared spectroscopy to analyze these heavy petroleum products (for which the evaporative effects are negligible). The unknown samples were determined to be a mixture of asphalt and No. 6 fuel oil, and the mixture was coupled to source samples of an industrial asphalt and No. 6 fuel oil.

Mattson<sup>23</sup> proposed the internal reflection technique to improve the reproducibility of the infrared spectra. In our opinion the condition of his sample, the presence of water, and the variable geometry of the sand surfaces will prevent attainment of reproducible sample area, and thus the spectra would not be reproducible. This opinion is in contrast to Adlard's statement.<sup>1</sup> A study of the possibility of using infrared spectroscopy for the remote sensing and identification of waterborne oil slicks has been made.<sup>24</sup>

Freearde et al.<sup>10</sup> and Thruston and Knight<sup>29</sup> have applied ultraviolet (uv) fluorescence spectroscopy to identify pollutants. Freearde<sup>10</sup> dissolved the cleaned-up sample in cyclohexane, subjected the solution to uv excitation at different wavelengths and obtained emission fluorescence spectra. Thruston and Knight<sup>29</sup> added three levels of sample concentration to the previous system. By this procedure, four pollutant samples were shown to have the same origin, with confirmation by elemental and infrared ratio analyses.

Mass spectrometry has been widely used for determining components in petroleum fractions since the molecular weight of the injected material is provided if the parent ion appears. The coupling of the gas chromatograph with the mass spectrometer has been especially helpful.<sup>13</sup> A review of published work on this coupling is available.<sup>31</sup> An application of the use of a high-resolution mass spectrometer for the group analysis of complex, unfractionated petroleum distillates was published by Gallegos et al.<sup>12</sup> The use of these high resolution measurements also makes it possible to estimate the contents of paraffins, monocycloparaffins, dicycloparaffins, etc., in a series of petroleum fractions, and to distinguish the types of aromatic and heterocyclic compounds present.

*Component Separation Techniques.* A number of component separation techniques based on chromatography have contributed to the identification of oily pollutants. Work done by Shuldiner in 1951,<sup>28</sup> paper chromatography followed by inspection of the chromatogram under uv light, is relevant today and applies to current problems.<sup>15,22</sup>

The use of column absorption chromatography was illustrated by Rosen and Middleton<sup>27</sup> who used silica gel columns for separating pollutants into fractions that were then examined by infrared spectroscopy.

Another chromatographic technique, gel permeation chromatography, has been applied to the fractionation of asphalt constituents. Altgelt<sup>3</sup> fully describes the preparation of the gel, column design, and sample preparation. One major peak is noted.

Another technique termed radial chromatography<sup>14</sup> has shown merit in comparing petroleum products. This technique combines capillary analysis and circular chromatography.

Gas-liquid chromatography (GLC), often used with high resolution and temperature programming, is a common method for separating materials into their components.<sup>2,21</sup> In a case of beach pollution<sup>26</sup> or oil leaks,<sup>7</sup> identification of petroleum sources illustrated applications of GLC for liquids at ambient temperature.

"Dual fingerprints" of the materials being studied may be obtained with chromatograph using dual detectors.<sup>2,16</sup> Brunnock et al.<sup>6</sup> used the n-paraffin components of crude oils as a kind of fingerprint for identification. GLC can also produce a simulated distillation pattern by means of an ASTM procedure.<sup>4</sup> The hydrocarbons C<sub>20</sub> through C<sub>35</sub> show typical distributions as related to various specific crude oil sources. With straight run No. 1 and No. 2 fuel oils, components are so similar qualitatively and quantitatively that identification by measuring n-paraffins is not useful for enforcement purposes.

Many chemical elements at trace levels<sup>5</sup> are contained in all crude oils and fuel oils. Because vanadium and nickel are present in the majority of crude oils and show considerable differences from one oil to another, both elements have been used as identification guides. The necessity for ashing the sample before the determination can lead to losses of these elements and may cause uncertain inferences. Several methods such as atomic absorption, x-ray fluorescence, emission spectroscopy and neutron activation vary in advantages and disadvantages. Adlard<sup>1</sup> considers the multitrace element technique the most definitive single method for identifying pollutant samples because the large number of parameters should produce characteristic correlations unique to the reference samples. Also, since these trace elements are found in the high boiling part of the oil, weathering should not have any effect on the ratios of these elements; but this is not always true as all trace elements are not bound in the stable form as chelates of porphyrin.

AQCL has developed a new and powerful method<sup>18</sup> to identify lube oils and asphalts. It is based on preparing certain volatile derivatives of weak acids and

mercaptans present in the samples and analyzing them by GLC with an electron capture detector. The method results in distinctive and characteristic patterns in the chromatograms of the heavier, non-volatile lube oils and asphalts. This is the first successful application of gas chromatography to analyses of heavy lube oils and asphaltic materials.

*Techniques of Data Treatment and Mathematical Statistics.* It has often been desirable to transform raw data before any analysis of the data is performed.<sup>3,2</sup> As an example, the use of ratios of absorbance in infrared spectroscopy offsets the effects produced by variation in sample film thickness.<sup>30,17</sup>

Using the technique of multivariate statistical analysis, all of the random variables may be analyzed simultaneously through the use of large computer systems and their attendant statistical packages.<sup>8</sup> At AQCL, the technique of data transformation and linear discriminant function analysis has been applied to infrared absorbance ratios.<sup>20</sup> As a result, asphalts and No. 6 fuel oils have been correctly classified with an average probability over both groups of 0.999. When a high probability is attained for the true classification of many samples from many groups, the potential of the multivariate procedure for identification of oil spills is recognized.

## WHAT IS NEEDED

Much research needs to be done in the area of characterization and identification of highly complex mixtures containing several petroleum products. Examinations of simple mixtures of products of diverse physical and chemical properties, such as light gasoline and heavy asphalt, have usually resulted in identity and characterization when preceded by resolution to the individual products. However, a mixture of two similar petroleum products (asphalt and another asphalt, for example) presents unusual difficulty. Since products of companies have somewhat similar properties, advanced statistical analyses of multi-instrumental techniques will be necessary in correlating the maze of data parameters for obtaining maximum information.

Efforts should be directed toward studies of the long-term effects of crude oils, petroleum products, and oily effluents on the ecology. After the wreck of the Torrey Canyon (1967), Freearde<sup>11</sup> detected in 1969 an accumulation of hydrocarbons in plankton obtained from the English Channel. There is danger that spilled oil may result in a buildup of polynuclear hydrocarbons in marine food-chains. Fish, marine mammals, and sea birds may eventually accumulate these hydrocarbons and

other synergistic materials on a long-term basis. Thus, suitable studies are needed to differentiate mineral (fossil) oils from the biogenic oils. Some work has been initiated in this area.

Recent findings by Thor Heyerdahl and the U.S. Research Ship Atlantic II show that Atlantic and Mediterranean areas are polluted by oil globules and monomolecular oil film. Ottway<sup>25</sup> discloses that the amount of light absorbed by this oceanic pollution would have a noticeable effect on photosynthesis and would on a long-term basis, affect the atmospheric gas balance. Thus, studies should be conducted on the physical and chemical effects of oils — the rates of gas diffusion through oil films of varying types and thicknesses, for example.

The chemical, toxicological, and biological fate of crude oils and products is also an area for more research. The duration of the oil spill (as indicated by products of autooxidation and by ratios of certain elements) and losses from evaporation and solubilization should be studied in detail and depth with a great variety of petroleum product fractions. Aged samples in fresh and salt water, in ground and runoff water, and in swamp water probably vary widely in composition after exposure, even though the temperature, light, rate of evaporation, etc., are held constant.

A number of promising and effective methods of oil identification have been made available, as shown by the present state of the art. However, the great complexity produced by multiple oil spills and the covering of old oil spills with new ones will require even more sophisticated and effective means of identification. In addition, the toxicity problems will provide subjects to study for a long time to come.

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8/21/74

Jim's Ferguson:

Reg Massey in

Upper Swannock has  
about 10 homes with  
gasoline in their  
wells. He needs your  
help to come up  
with some recommended  
actions.

← Tom Kurren

\* I - James Anderson - jet pump  
need  $1\frac{3}{16}$  wrench to set in well  
44'-4" (top of casing)  
(not in use)  
} qt. - pumped for 2 mins.  
} back - lowered on string

\* II - Scurry - turbine pump

III - Truck stop (1) cased. not capped. ~~44'-4"~~  
beer cans ~~being pumped during lunch~~  
can't get to water

\* (2) casing. cement block on top. 24' 10" (top of casing)  
not in use.

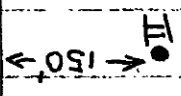
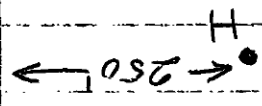
\* (3) jet pump. 47' 10" (?) (top of casing)  
being pumped during lunch

\* IV jet pump 26'-5" (top of casing)

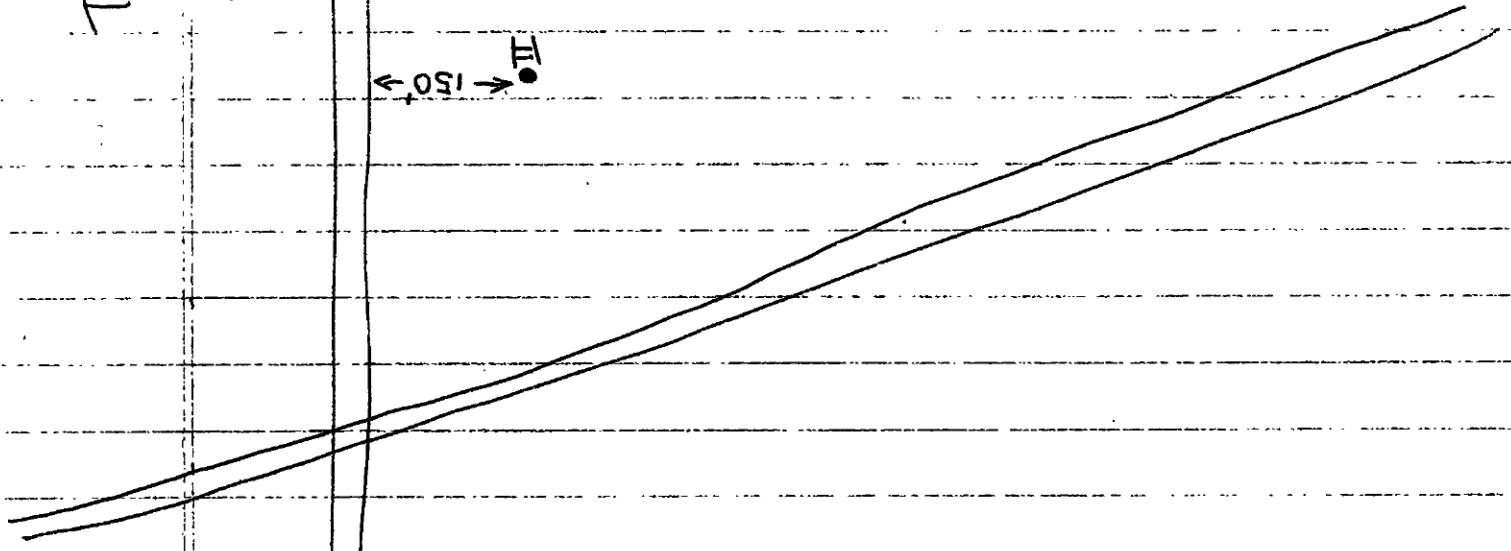
\* V jet pump, no seal, in house. Gordon  
George Coleman  
125' deep  
= 36'-6"

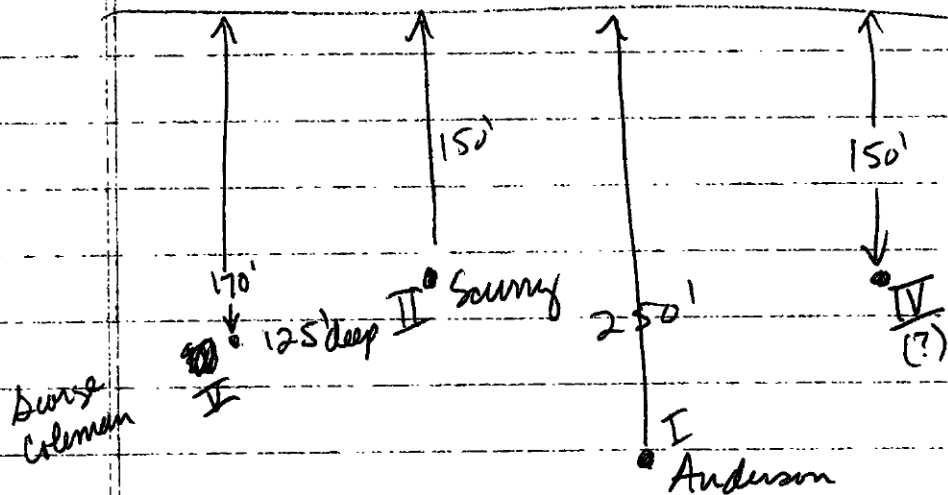
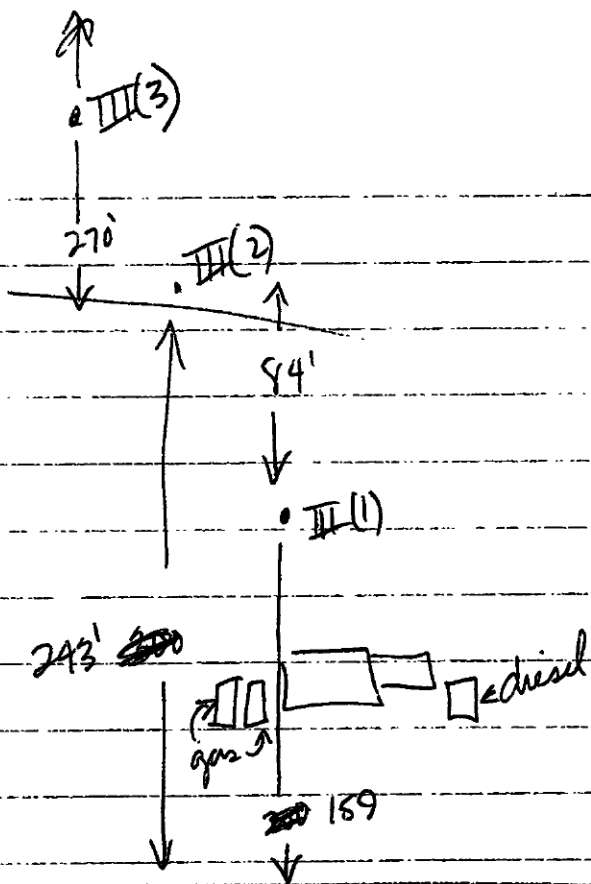
VI Culbreth.  
= 25'-2"  
George Coleman  
120' deep

Truck stop



318





10-1-74

Called Cody.

Reg Massey can go with me to the area on  
Thursday, 10-3-74 to conduct sample study.



10-1-74

Dwight says he can run 6 or 7 on Monday.  
Ann Smythe will be there if he isn't.

9-24-74

Cody and Massey in Columbia today.  
Reg says any day next week is O.K. with  
him to visit the site and conduct a  
study.

# GAS IN PRIVATE WELLS (Edgefield Co.)

9-20-74

Call from Jim Cody.  
returned call at 11:30.

Cody says we have to do something about the gasoline in the private wells near service station 5 mi. east of 378/25 intersection in Edgefield Co.

Will check on it and call back.

Discussed this with Bob Gross, Cliff Hawkins, Noel Hurley, & Tom Kurimcak. No definite opinions. Sloway says should be handled by Sanitation.

Gross - referred to Heriot.

Hawkins - took me to Hurley.

Hurley - called lab to find out what they can do.

Tom Kurimcak - later.

9-23

Bill Miller's opinion is to make a site inspection and get the facts down. Then possibly special studies and/or compliance can get involved.

Memo for file

one well 120'

Between + of 378 and 25 ~ 5 mi toward Saluda.  
wells are slightly upslope from station.

Lab says it's not gasoline definitely but some  
petroleum distillate.

**BOARD MEMBERS**

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**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
J. MARION SIMS BUILDING — 2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201

October 7, 1974

**Memorandum**

To: Files

From: Jim Ferguson *JMF*  
Geologic Studies Section  
Division of District Services

Re: Gasoline in private wells on U.S. 378 approx. eleven  
miles West of Saluda. S.C. in Edgefield County

A preliminary study of conditions existing in the referenced area was conducted on October 3, 1974 with Reginald Massey, Environmental Quality Control Office, Greenwood, S.C.

Eight wells were surveyed and seven samples collected. The tabulated results of the well survey are enclosed.

Sample analyses will be submitted at a later date. Samples from well I will be analyzed to try to determine the brand of gasoline. Others will be tested for the presence of petroleum.

The predominate rock type is grayish-brown, fine grained laminated argillite of the Carolina Slate Belt with foliation running approximately North-east-Southwest. In the road cut on U.S. 378 a few joints are visible cutting across foliation at various angles. According to well driller, ~~Earl~~ Coleman, who drilled most of the wells, the color of the argillite changes to blue-gray at approximately 25 feet in this area.

*Thad*

JMF:bf

cc: John E. Jenkins  
Noel Hurley  
Jim Cody  
Russ Sherer  
Dave Heriot  
Bob Tindal

Enclosures



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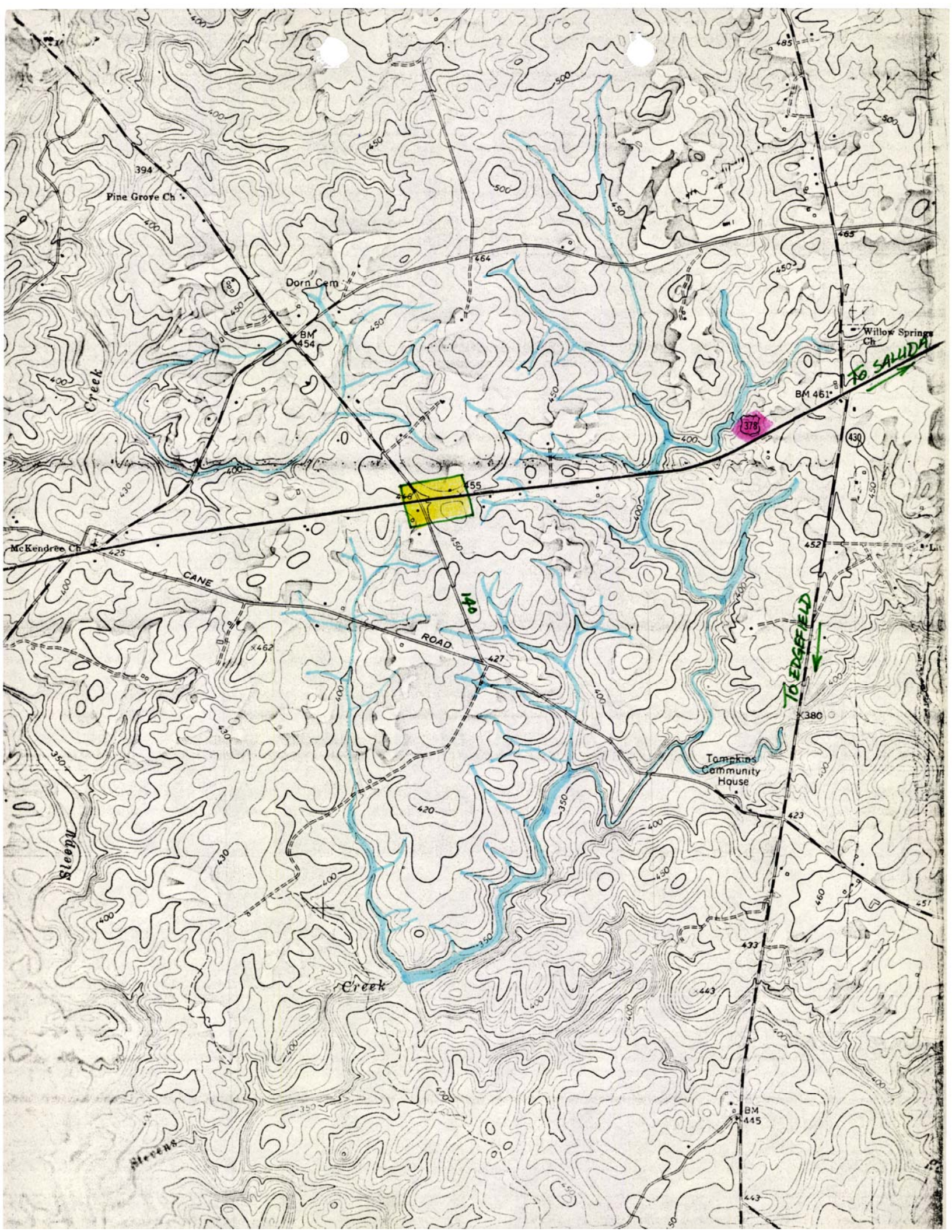
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Russ Sherer  
Dave Heriot  
Bob Tindal

Enclosures



Pine Grove Ch

Dorn Cem

BM 454

Willow Springs Ch

BM 461

TO SALUDA



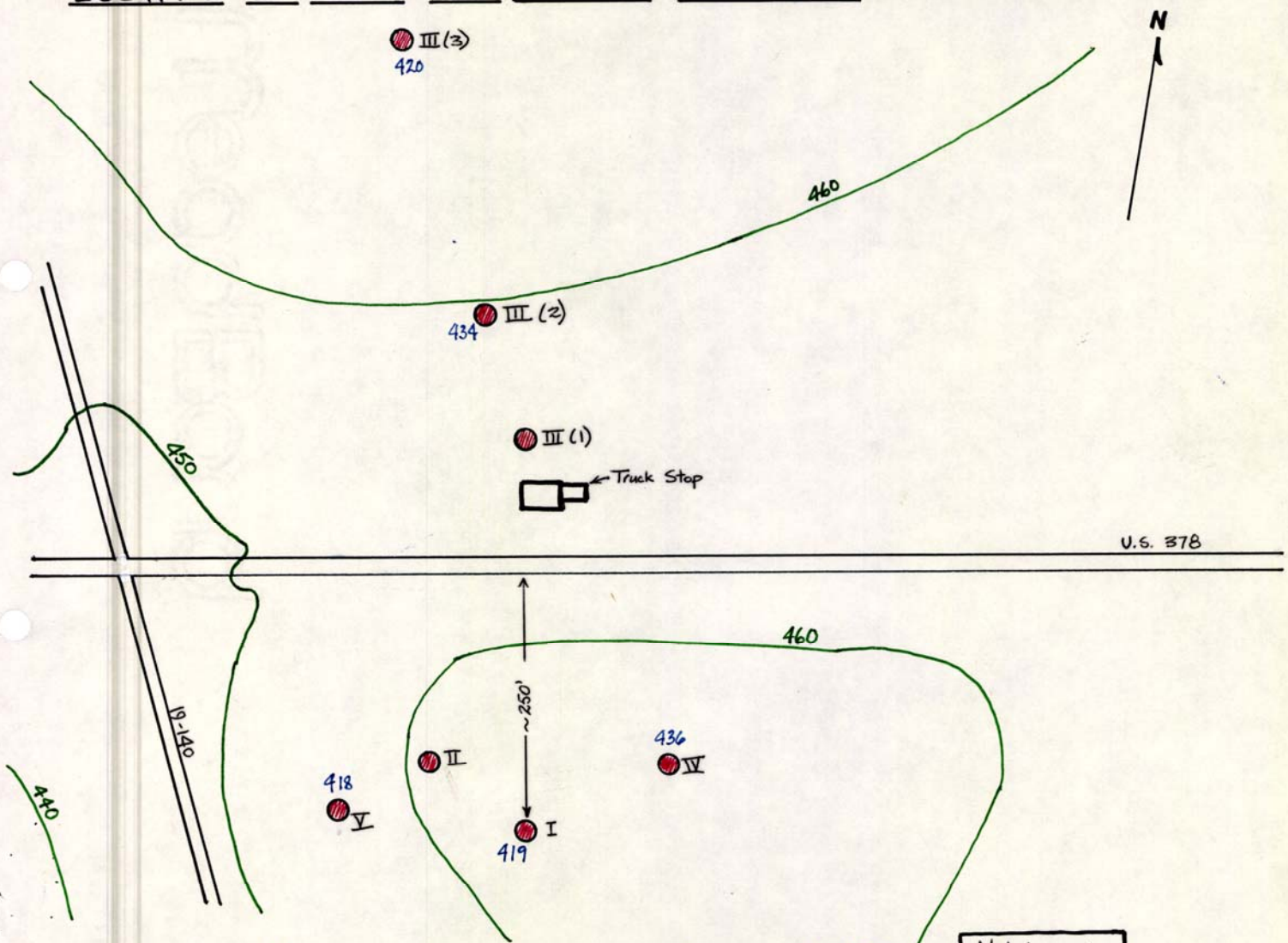
140

TO EDGEFIELD

Tampkins Community House

BM 445

# LOCATION OF WELLS AND GENERAL TOPOGRAPHY



Contours taken from U.S.G.S. 7½ min. topo.

440 - approx. elev. of  $\nabla$

Not to scale



SUMMARY OF WELL INFORMATION

| <u>WELL</u> | <u>OWNER</u> | <u>PUMP</u> | <u>SAMPLED</u> | <u>DEPTH</u> | <u>WATER TABLE*</u> | <u>REMARKS</u>  |
|-------------|--------------|-------------|----------------|--------------|---------------------|---|
| I           | J. Anderson  | jet         | yes(2)         | - ~ 463      | 44.3' ~ 415         | Sampled from faucet after pumping for 2 mins. Took 2 bacteriological bottles from top of water. Smelled like gasoline with very little water present. |
| II          | Scurry       | turbine     | yes            | - ~ 461      | -                   | Could not get into well to sample. Pumped for 3 mins.   |
| III(1)      | Truck Stop   | none        | no             | - ~ 452      | -                   | Open casing with trash in the bottom. Could not get to water.   |
| III(2)      | Truck Stop   | none        | yes            | - ~ 459      | 24.9' ~ 434         | Empty casing with cement block on top.  |
| III(3)      | Truck Stop   | jet         | yes            | - ~ 468      | 47.9' ~ 420         | Pump was running just before sample was skimmed from top.   |
| IV          | -            | jet         | yes            | - ~ 463      | 26.5' = 436         | -   |
| V           | Gordon       | jet         | yes            | 125' ~ 455   | 36.5' = 418         | Drilled by Coleman from Saluda.   |
| VI          | Culbreath    | jet         | no             | 120'         | 25.2' =             | Drilled by Coleman from Saluda.   |

\* - Below top of casing

*File  
through  
file*

*[Signature]*

October 7, 1974

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The predominate rock type is grayish-brown, fine grained laminated argillite of the Carolina Slate Belt with foliation running approximately North-east-Southwest. In the road cut on U.S. 378 a few joints are visible cutting across foliation at various angles. According to well driller, Fair Coleman, who drilled most of the wells, the color of the argillite changes to blue-gray at approximately 25 feet in this area.

JMF:bf  
cc: John E. Jenkins  
Boal Hurley  
Jim Cody  
Russ Sherer  
Dave Heriot

**Enclosures**

*John E. Jenkins*

*X*

October 7, 1974

*[Handwritten signature]*

**Memorandum**

**To:** Files

**From:** Jim Ferguson  
Geologic Studies Section  
Division of District Services

**Re:** Gasoline in private wells on U.S. 378 approx. eleven miles West of Saluda. S.C. in Edgefield County

A preliminary study of conditions existing in the referenced area was conducted on October 3, 1974 with Reginald Massey, Environmental Quality Control Office, Greenwood, S.C.

Eight wells were surveyed and seven samples collected. The tabulated results of the well survey are enclosed.

Sample analyses will be submitted at a later date. Samples from well I will be analyzed to try to determine the brand of gasoline. Others will be tested for the presence of petroleum.

The predominate rock type is grayish-brown, fine grained laminated argillite of the Carolina Slate Belt with foliation running approximately North-east-Southwest. In the road cut on U.S. 378 a few joints are visible cutting across foliation at various angles. According to well driller, Fair Coleman, who drilled most of the wells, the color of the argillite changes to blue-gray at approximately 25 feet in this area.

JWF:bf  
cc: John E. Jenkins  
Neal Hurley  
Jim Cody  
Russ Sherer  
Dave Harlot

**Enclosures**

**BOARD MEMBERS**

Lachlan L. Hyatt, Chairman  
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Leonard W. Douglas, M.D.  
Caroline G. Newhall  
J. Howard Stokes, M.D.

# SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
J. MARION SIMS BUILDING — 2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201

**Memorandum**

**To:** Jim Ferguson  
Geological Studies Section  
Division of District Services

**From:** Russell W. Sherer, Manager *RWS*  
Special Studies  
Surveillance & Analysis Division

**Subject:** Gasoline in private wells on U. S. 378 approximately eleven miles west of Saluda, S. C. Edgefield County

**Date:** October 16, 1974

As per our conversations follow receipt of your October 7, 1974, memo concerning the above referenced items, it may be possible to identify the source by sample comparison. Samples of oil from the wells and from the nearby service station (with underground storage) could be analyzed to see if they are the same. John Owenby may be able to do this work for you. If not, Dennis Revel at EPA's Athens Lab does this type of sample work during spills in order to identify the discharger.

I did contact Allan Bartlett, E.P.A. Emergency Response Team member, Atlanta, who stated that oil will maintain its integrity underground for distances up to 100 yards. At greater distances, biodegradation and chemical alteration makes comparison impossible.

If I may be of further assistance, let me know. I am interested in learning what you come up with.

RWS/al

**cc:** Noel Hurley  
Jim Cody  
Dave Heriot  
Tom Kurimcak  
Bob Tindal



**BOARD MEMBERS**  
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## **SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

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RWS/al

cc: Noel Hurley  
Jim Cody  
Dave Heriot  
Tom Kurimcak  
Bob Tindal

Gas in private wells, Edgefield Co.  
Memo for file

10-31-74

Called Southern Pump and Tank  
779-8090

No simple chemical test.  
Their Charlotte office has equipment to do a  
~~Open~~ "tank tightness test" which requires  
special equipment and takes ~ 2 days.

Call E. M. Beaver or Don Sheets in Charlotte.  
704-596-4373 for info.

Mr. William F. Scurry

12-30-74  
6-7 years - Mrs. Coleman put well in.

August 1974 started - not been 7  
into since.

12 30 74

Mr. Anderson's has cleared up somewhat.  
(well behind trailers)

No trouble with well at trailers

No trouble with house across from  
Anderson residence.

Only 2 has had trouble - Only Scurry  
and Anderson

✓ Wells at store across street  
have had trouble - 1958-59 had  
to stop cooking (used to be grill).

Gas tanks at store at same time of  
trouble at store.

✓ Total of 9 property (subdivision)

115  
Rt 2 Edgefield



Petroleum in private wells in Edgefield Co.

1-7-75 - Called Cody. He says Anderson well is getting better. Scurry worse. Scurry well has never been checked before.

Truck stop was built in '54. Had gas in their wells in '59. Put in new tanks. Aug. '74 showed in Scurry. Anderson before that.

Scurry is planning civil suit if we'll back him up.

Scurry well is 6 yrs. old.

Joe Mogg (Johnson Well Screen)



*Edgfield SC*  
*James L. Cody*

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J. Lorin Mason, Jr., M. D.  
Caroline G. Newhall

# SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
J. MARION SIMS BUILDING — 2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201

February 25, 1975

James L. Cody, D. E.  
Box 797  
Greenwood, S. C. 29646

Dear Jim:

Attached is a copy of the laboratory results from the samples we collected on February 19, 1975. There is no doubt that Mr. Anderson's well contained regular gasoline. The chromatograms from his well and the one from the truck stop match almost perfectly. The crucial question that we are faced with is how did the petroleum product get into the well?

I contacted Dennis Revel, Petroleum Analyst with EPA in Athens, and Denny Dobbs, a member of the Emergency Response Team, EPA, Atlanta, and they could not shed any light as to how we might trace the source. Both Mr. Dobbs and Mr. Revel indicated that there was nothing they could do. Late yesterday afternoon I was able to contact the District Manager with Phillips 66 and he indicated that possibly their construction crew could do some testing and determine if the tanks were leaking. I am hoping this may prove fruitful. I will let you know as soon as I hear from them. In the meantime, I guess we will have to wait.

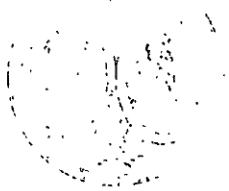
If you have any questions, please let me know.

Yours truly,

*Henry E. Gibson*  
Henry E. Gibson Manager  
Special Services  
Water Surveillance & Laboratory  
Analysis Division

HEG/al

enclosure (1)



Lachlan I. E. ...  
 William ...  
 I. DeQuincy ...  
 Leonard V. ...  
 Cord ...  
 J. Howard Steles, II

# SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
 J. MARION SIMS BUILDING — 2600 BULL STREET  
 COLUMBIA, SOUTH CAROLINA 29208

2-24-75

PROJECT: Hydrocarbon contamination in Anderson's, Culbreth, and Scurry's wells on US 370 West of Saluda

CHEMIST: Richard Young

RECEIVED: 2-20-75

COMPLETED: 2-21-75

| <u>LAB NO.</u> | <u>STATION</u>   | <u>RESULTS</u> mg/L   |
|----------------|--|---|
| 428-SS (SA-58) | Sample from old well directly behind Phillip's 66 Station. | <1  |
| 429-SS (SA-59) | Scurry's Well  | <1  |
| 430-SS (SA-60) | Old Well uphill behind Phillip's 66 station                | <1  |
| 431-SS (SA-61) | Culbreth's Well  | <1  |
| 432-SS (SA-62) | Anderson's Old Well  | 100% gasoline sample from well matches the Phillip's 66 regular gas sample. |
| 433-SS (SA-63) | Phillip's 66 regular gas                                   |   |
| 434-SS (SA-64) | Phillip's 66 diesel fuel                                   |   |
| 435-SS (SA-65) | Anderson's New Well  | <1  |

Analytical Services Division  
Chemical and Physical Analyses of Drinking Water

Date Collected 12/02/75 Collected By R. Massey  
 Mo. Day Yr.

Station Code \_\_\_\_\_  
 Laboratory \_\_\_\_\_  
 Sample No. SA120450368

MAIL REPORTS TO:

Name Wayne S. TSEMAN  
 Address P.O. Box 797  
GREENWOOD S.C. 29646

SAMPLING POINT:  
W.D. SCURRY RESIDENCE  
WELL

TYPE OF EXAMINATION

- Private Routine
- Public Complete
- Special (Please Specify Request)

COMMENTS

Possible gasoline in well

RESULTS

(Lab Use Only)

INORGANIC ANALYSES

Total Solids \_\_\_\_\_ ppm  
 Turbidity \_\_\_\_\_ t.u.  
 Color \_\_\_\_\_ c.u.  
 Odor \_\_\_\_\_ t.o.  
 pH \_\_\_\_\_  
 Alkalinity \_\_\_\_\_ ppm  
 Cyanide \_\_\_\_\_ ppm  
 Fluoride \_\_\_\_\_ ppm  
 Chloride \_\_\_\_\_ ppm  
 Nitrate (N) (Total NO<sub>3</sub>/NO<sub>2</sub>) \_\_\_\_\_ ppm  
 Phosphate (PO<sub>4</sub>) Ortho \_\_\_\_\_ ppm  
 (P) Total \_\_\_\_\_ ppm  
 MBAS \_\_\_\_\_ ppm  
 Sulfate \_\_\_\_\_ ppm  
 Hardness \_\_\_\_\_ ppm

Calcium \_\_\_\_\_ ppm  
 Magnesium \_\_\_\_\_ ppm  
 Sodium \_\_\_\_\_ ppm  
 Potassium \_\_\_\_\_ ppm  
 Arsenic \_\_\_\_\_ ppm  
 Barium \_\_\_\_\_ ppm  
 Cadmium \_\_\_\_\_ ppm  
 Chromium \_\_\_\_\_ ppm  
 Copper \_\_\_\_\_ ppm  
 Iron \_\_\_\_\_ ppm  
 Lead \_\_\_\_\_ ppm  
 Manganese \_\_\_\_\_ ppm  
 Mercury \_\_\_\_\_ ppb  
 Selenium \_\_\_\_\_ ppm  
 Silver \_\_\_\_\_ ppm  
 Zinc \_\_\_\_\_ ppm

ORGANIC ANALYSES

Aldrin \_\_\_\_\_ ppb  
 Chlordane \_\_\_\_\_ ppb  
 DDT \_\_\_\_\_ ppb  
 Dieldrin \_\_\_\_\_ ppb  
 Endrin \_\_\_\_\_ ppb  
 Heptachlor \_\_\_\_\_ ppb  
 Heptachlor Epoxide \_\_\_\_\_ ppb  
 Lindane \_\_\_\_\_ ppb  
 Methoxy Chlor \_\_\_\_\_ ppb  
 Toxaphene \_\_\_\_\_ ppb  
 Parathion \_\_\_\_\_ ppb  
 2,4-D \_\_\_\_\_ ppb  
 2,4,5-T \_\_\_\_\_ ppb  
 2,4,5-TP \_\_\_\_\_ ppb  
 CCE \_\_\_\_\_ ppb

Gasoline was detected at an approximate concentration of 20 and 40 parts per million.

DHEC-1313-5M-REV-9/75  
 WHITE-ADDRESSEE

CANARY-FILE

PINK-DISTRICT OFFICE

GOLDENROD-SANITARIAN (PRIVATE ONLY)

Date Reported 12/18/75

|                 |        |
|-----------------|--------|
| Project #       | Number |
| Present at site | Title  |

# FIELD INSPECTION REPORT

- #10 ADMINISTRATIVE**
- (11) Plan Review
  - (12) Conference
  - (13) Reports
  - (14) Meetings

- #20 CROSS-CONNECTIONS**
- (21) Survey
  - (22) Correction
  - (23) Conference

- #30 SURFACE PLANTS**
- (31) Routine Survey
  - (32) Operational Problems

- #40 GROUND WATER PLANTS**
- (41) Routine Survey
  - (42) Operational Problems

- #50 UNSATISFACTORY SAMPLES**
- (51) Bacteriological
  - (52) Chemical

- #60 WASTEWATER**
- (61) Septic Tanks
  - (62) Plants
  - (63) Oxidation Ponds

- #70 RECREATIONAL AREAS**
- (71) Artificial Pools
  - (72) Nat. Swim. Areas
  - (73) Sampling
  - (74) Operational Problems

- #80 SHELLFISH**
- (81) Patrol
  - (82) Plant Inspection
  - (83) Sample Collection
  - (84) Sanitary Survey
  - (85) Laboratory
  - (86) Maintenance

- #90 INVESTIGATION FOR OTHER AGENCIES**

- #00 MISCELLANEOUS**

TO North Charleston  
Water Treatment Plant

COMMENTS # 100

*[Handwritten notes and signatures follow in the comments section]*

White - Original  
 Yellow - County Health Department  
 Blue - Central Office  
 Green - File  
 Pink - District Health Office

Signed \_\_\_\_\_  
 Title \_\_\_\_\_



*W. Hyatt* *DeQuincey Newman*  
*W. A. Barnette, Jr.* *Lavannah*

BOARD MEMBERS

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Leonard W. Douglas, M.D.  
J. Lorin Mason, Jr., M.D.  
William C. Moore, Jr., D.M.D.

## SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
J. MARION SIMS BUILDING — 2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201

January 5, 1976

Mr. W. F. Scurry  
Route 2, Box 115  
Edgefield, S. C. 29824

Dear Mr. Scurry: ←

*File: Edgefield.*

This letter is in reference to the gasoline that is in your well which has existed for several months. As you recall, I visited with you on February 20, 1975, and collected some samples for analyses. The samples did contain some gasoline. Our laboratories reported the gasoline as Phillips 66 regular. This is the same type product sold by Mr. Fulmer from the station across the street, but the information is not conclusive enough to say that is the point of origin.

I have worked on the problem for quite some time. The following is a list of persons and accomplishments:

- 2/20/75 Called P&O Oil Company in Saluda and talked with the secretary. She promised to have Mr. Odom call me. P&O is the distributor that services Mr. Fulmer's station.
- 2/21/75 Mr. Odom called and said he had talked with the operator, Mr. Fulmer, and the operator had indicated that he was not losing any gasoline.
- 2/24/75 Called and talked with Dennis Revel, E.P.A., Athens, Georgia, and he did not give me any encouragement on testing for gasoline in well water. He did recommend that I contact Jack Stonebreaker, also of E.P.A.
- 2/24/75 Called Jack Stonebreaker of E.P.A. and he was out, so I talked with George Moein and he said he would kick the idea around and get back in touch with me.
- 2/24/75 Denny Dobbs of E.P.A. (same office as above) called and said the present oil spill law does not cover gasoline in underground water. He suggested I contact Phillips 66 District representative.
- 2/24/75 Called and talked with the Phillips 66 District Representative, Jerry Rhoades, and he promised to get in touch with his construction crew and see what could be done, then get back in touch with me.

Letter to Mr. Scurry

Page 2

January 5, 1976

- 3/6/75 Called and talked with Jerry Rhoades since I had not heard from him and he said he had sent Mr. Fulmer some information on how to check for leaks. He also stated that his office did not plan to do any further testing.
- 3/6/75 Checked with P&O Oil Company and they said they had checked Mr. Fulmer's station on February 26, 1975, and did not find any water in the gasoline tanks. I asked them to check the other tanks.
- 3/13/75 Called P&O Oil Company and the secretary stated the driver of the delivery truck had checked the other tanks and did not find any water in them either. Also, requested the amount delivered to Mr. Fulmer.
- 3/25/75 Called Truck Stop and asked to speak with Mr. Fulmer. His son stated he was not in.
- 3/26/75 Sent letter to P&O Oil Company, requesting the amount of petroleum products delivered to the 378 Truck Stop from September 1, 1974, to present time.
- 3/30/75 Received the information that I requested in the above letter.
- 4/7/75 Called and talked with Willy Fulmer. He stated he had been away from the station for some time. I asked him to furnish me with records to indicate the amounts of gasoline sold. He said he would try to find them and that he was tired of people harassing him.
- 4/7/75 Called and talked with Dave Gaskins of Southern Pump & Tank Company and explained the problem I was having. He promised to send me some information describing a method for testing underground tanks.
- 4/11/75 I received Mr. Gaskins' letter. The cost of doing leak testing on the underground tanks was approximately \$300.00.
- 5/6/75 Called Mr. Fulmer again and he was out.
- 5/28/75 Called Mr. Fulmer again and he was out.

Having made the last two calls without any contact, I realized that Mr. Fulmer was avoiding me and did not intend to co-operate by sending me the pumping records that I requested.

Letter to Mr. Scurry

Page 3

January 5, 1976

At this point I let the issue drop because I do not have any legal authority to demand his records, nor do we have any legal authority to make him test his tanks.

I think your best and quickest course of action is through the courts. You should contact your lawyer and get his advice on the matter.

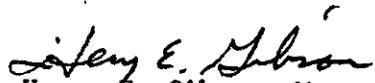
This office does not have the funds to do the leak testing or we would do it. Of all the various things I found out, this would be the most expedient and probably the most economical in the long run.

An alternate suggestion would be to get a pump and pump the well out for a period of 3-5 days, then let the water accumulate and see if the gasoline appears again. This Agency does not have a pump large enough to do this.

I apologize for the long delay in notifying you because I had high hopes of solving the problem.

If you have any questions, or need any of the data that I have, please contact me.

Yours truly,

  
Henry E. Gibson, Manager  
Special Services Section  
Division of District Services

HEG/al

cc: Wayne Iseman



SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Environmental Quality Control  
Upper Savannah District  
P.O. Box 797  
Greenwood, South Carolina 29646

APR 13 1977

MEMORANDUM

TO: Lewis Shaw, Director  
Water Supply Division

FROM: Reginald E. Massey *Rem*  
Upper Savannah

SUBJECT: Gasoline contamination of private wells

I am enclosing copies of our correspondence in regard to gasoline contamination of at least two private wells in Edgefield County. As you can see, we were never able to definitely pinpoint the source of contamination. Henry Gibson was not able to make the companies involved pressure test the underground storage tanks. While this pressure test would not conclusively prove or disprove that the gasoline in the wells is coming from these tanks, it would prove whether or not he is losing gasoline. One fact not emphasized in this correspondence is that the diner at the truck stop was closed about 1957 or 1958 due to the same problem with their wells.

One of the families involved has again contacted the county health department and submitted a sample which our lab reported as 100% hydrocarbon.

Is there not some way through the Safe Drinking Water Act that we can force the oil company to pressure test the tanks to prove that they are not leaking gas? So much time and money have been spent trying to solve this problem that it is ridiculous not to be able to take the final step towards its determination. I am hesitant about going down to check on the situation again if we won't be able to follow through with some type of action.

Please let me know your feelings about this at your earliest convenience.

d1  
Enclosure

**SUPERB APPROVAL CHECKLIST**

SITE NAME Scurry/Anderson PCAS 6786

FREE PRODUCT? YES <sup>4-13-77</sup> NO

| SOIL        |  | TPH | B | T | E | X | LEAD | Collected | Run |
|-------------|--|-----|---|---|---|---|------|-----------|-----|
| 1<br>2<br>3 |  |     |   |   |   |   |      |           |     |
|             |  |     |   |   |   |   |      |           |     |
|             |  |     |   |   |   |   |      |           |     |

| WATER |                   | TPH | B | T    | E   | X     | LEAD | Collected | Run |
|-------|-------------------|-----|---|------|-----|-------|------|-----------|-----|
|       |                   | 10  | 5 | 2000 | 700 | 10000 | 50   |           |     |
| 1     | 20-40ppm Gasoline |     |   |      |     |       |      |           |     |
| 2     |                   |     |   |      |     |       |      |           |     |
| 3     |                   |     |   |      |     |       |      |           |     |

Y N SUPERB QUALIFICATIONS

- A)  CONTAMINATION CONFIRMED? \_\_\_\_\_
- B)  TANKS REGISTERED? # N-41-NO-07960 (IN 86)
- C)  FEES PAID TO DATE? \_\_\_\_\_ 88-99 \_\_\_\_\_ 89-90
- D)  INVENTORY RECORDS? None Required
- E)  REPORTED BETWEEN 1-1-88 & 12-31-89 77 4-13-77 ✓
- F)  SUPERB REQUESTED Not A

SPILL INSURANCE? COMPANY N-A-

DEDUCTABLE \$ \_\_\_\_\_

**EXPLANATIONS**

\* NOV 88 Tanks Reported Dug Up. - Wilkerson Fuel Company

---



---

INITIAL RELEASE REPORT

SITE NAME Scurry Anderson PCAS 6786

CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_

PROBLEM Wells Contaminated - Tanks Removed.

UST REGULATIONS. R.61-92

|  | Required         | Received |
|--|------------------|----------|
| .61 Initial= Report release (72 hours)   | _____            | _____    |
| .62 Abate = 1 Remove product from UST<br>6 Look for Free Product (FP)<br>Report FP (20 days) | <del>_____</del> | _____    |
| .63 Site Characterization report (45 days) ✓   | _____            | _____    |
| .64 FP Removal = 45 day report (SEVEN items)   | <del>_____</del> | _____    |
| .65 Asses. Plan for extent of contamination ✓  | _____            | _____    |
| .66 Corrective Action Plan   | _____            | _____    |

ASSES. PLAN REQ'D? Y N by \_\_\_\_\_ Rec'd \_\_\_\_\_

Plan signed by SC Registered Geologist? Y N

Wells drilled by SC Certified Well Driller Y N

SUPERB REQUESTED? Y N APPROVED? Y N

OTHER INFORMATION REQUESTED

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

Enclosures: SUPERB INFO CAP INFO WELL FORM NPDES SUBPART F

## - History -

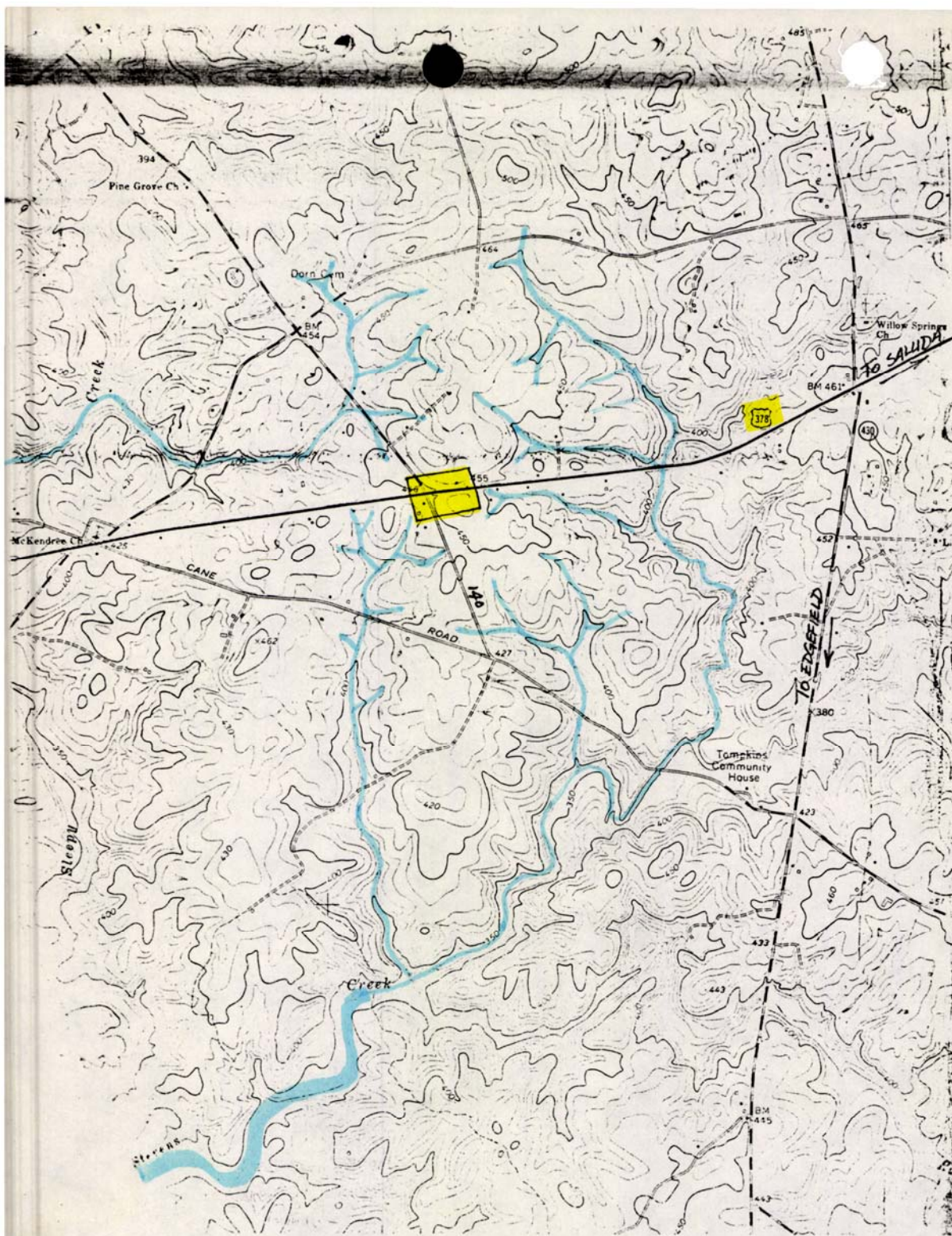
- 9-20-74 Call From Jim Cody Gasoline in Private Well.  
Anderson
- 10-7-74 Prelim DHEC Report.
- 1-7-75 Scurry Contain 1<sup>st</sup> noticed Aug 74.  
Truck Stop built 1954. Gas in Truck Stop  
well 1959. Replaced tanks. (PHILLIPS 66)
- 2-25-75 DHEC LAB Reports 100% gasoline (Anderson)
- 12-2-75 DHEC LAB Reports 20-40 ppm gasoline (Scurry)
- 1-5-76. P+O OIL CO - DISTRIBUTOR  
Jouy Odom - Owner P+O Oil.  
Willy Fulmer - STATION OPERATOR.
- 4-13-77 DHEC LAB - Reports Pure Gasoline Anderson.
- 7-26-77 Report of Taste + Odor in Gordon Well.
- 2-12-84 VOLITAL ORGANIC SCAN - Scurry Well - N-D.
- 1-24-86 3 Tanks Registered 2 Gas, 1 Diesel.
- 11-30-88 Tanks Reported Purchased + Dug up by Wilkerson Oil Co.
- 9-28-89 GW Contain Inventory - Well is Monitored?

6786-

3-19-90 - Memo - Site Visit . B. Dupree

3-20-90 Memo Site Visit R. Massey.

PCAS6786



LOCATION OF WELLS AND GENERAL TOPOGRAPHY

○ III (3)  
420

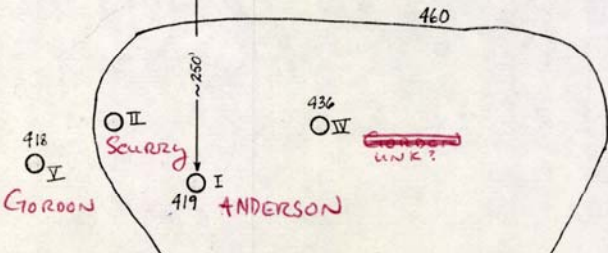
N

○ III (2)  
434

○ III (1)

← Truck Stop

U.S. 378



Contours taken from U.S.G.S. 7 1/2 min. topo.

440 - approx. elev. of ?

Not to scale

PCAS 6786

SUMMARY OF WELL INFORMATION

| <u>WELL</u> | <u>OWNER</u> | <u>PUMP</u> | <u>SAMPLED</u> | <u>DEPTH</u> | <u>WATER TABLE*</u> | <u>REMARKS</u>  |
|-------------|--------------|-------------|----------------|--------------|---------------------|---|
| I           | J. Anderson  | jet         | yes(2)         | ~ 463        | 44.3' ~ 41 1/2'     | Sampled from faucet after pumping for 2 mins.<br>Took 2 bacteriological bottles from top of water.<br>Smelled like gasoline with very little water present. |
| II          | Scurry       | turbine     | yes            | ~ 461        | -                   | Could not get into well to sample. Pumped for 3 mins.   |
| III(1)      | Truck Stop   | none        | no             | ~ 452        | -                   | Open casing with trash in the bottom. Could not get to water.   |
| III(2)      | Truck Stop   | none        | yes            | ~ 459        | 24.9' ~ 42 1/2'     | Empty casing with cement block on top.  |
| III(3)      | Truck Stop   | jet         | yes            | ~ 468        | 47.9' ~ 42 1/2'     | Pump was running just before sample was skimmed from top.   |
| IV          | -            | jet         | yes            | ~ 463        | 26.5' ~ 43 1/2'     | -   |
| V           | Gordon       | jet         | yes            | 125 ~ 455    | 36.5' ~ 41 1/2'     | Drilled by Coleman from Saluda.   |
| VI          | Culbreath    | jet         | no             | 120'         | 25.2' ~             | Drilled by Coleman from Saluda.   |

\* - Below top of casing

PCAS-6786





BOARD MEMBERS

Lachlan L. Hyatt, Chairman  
William M. Wilson, Vice-Chairman  
I. DeQuincey Newman, Secretary  
W. A. Barnette, Jr.  
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J. Lorin Mason, Jr., M.D.  
William C. Moore, Jr., D.M.D.

# SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

April 28, 1977

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
J. MARION SIMS BUILDING — 2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201

MEMORANDUM

TO: Steve Thomas  
Compliance Division, Wastewater

FROM: William T. Lavender, Jr. *WTL*  
Surveillance, Enforcement, and  
Technical Assistance Section  
Water Supply Division

SUBJECT: Gasoline Contamination of Private Wells

As per our conversation I am enclosing copies of correspondence forwarded to me from Reggie Massey.

As far as the State Safe Drinking Water Act is concerned, I don't feel that the Water Supply Division has any jurisdiction over this matter since it relates solely to private wells and not to a public water supply. However, after a cursory review of the South Carolina Pollution Control Act, I do feel that some jurisdiction may exist under this law.

I am relying on Section 13 of the Act that makes it unlawful for a person to discharge into the environment. Section 1(20) defines environment to include waters. Section 1(2) defines water to include "all bodies of surface or underground water, natural or artificial, public or private...."

Although the State may have a cause of action under this Act, any damages these individuals incur personally will not be compensated by this action. As we discussed, it does appear that some action would lie with these individuals against the person or persons responsible for any contamination.

By copy of this memorandum, I am advising Reggie Massey that you will take this matter under consideration.

WTLjr:klh

Enclosures

cc: Reggie Massey, Environmental Technician, Upper Savannah District

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
DIVISION OF WATER SUPPLY  
CHEMICAL ANALYSES OF PRIVATE DRINKING WATER SUPPLY

Date Collected 04/11/77 Time Collected ?  
 Collected By R. FRED STRANGE

PERSON REQUESTING SAMPLE:

Name Wayne E. ISEMAN  
 Address P.O. Box 797  
GREENWOOD, S.C. 29646  
 County EDGEFIELD Telephone \_\_\_\_\_

COMMENTS DID NOT HAVE COMPLETE  
INFORMATION ON THIS SAMPLE  
BT WILL FORWARD DATA IMMEDIATELY

LOCATION AND WELL INFORMATION

(distance and direction from nearest city and intersection with road numbers): As the well location and construction greatly affect the quality of ground water, this information is essential for an accurate evaluation of your test results.

INFORMATION FORTHCOMING

56 -> ANDERSON WELL

Age \_\_\_\_\_ (years) Depth \_\_\_\_\_ (feet) Diameter \_\_\_\_\_ (inches)  
 Water level \_\_\_\_\_ (feet) Casing depth \_\_\_\_\_ (feet)  
 Yield \_\_\_\_\_ (gallons per minute) Driller \_\_\_\_\_  
 No. of persons using well: \_\_\_\_\_

E:DWS:3

TYPE OF EXAMINATION REQUESTED

- Private Routine: requires a clean quart glass or plastic container.  
 Organic (gasoline, pesticide, etc.): requires a one-quart glass container with tin foil lined cap. MUST BE REFRIGERATED.  
 Fluoride: requires an 8-ounce plastic container.  
 Other (please specify request); contact county health department for necessary information. \_\_\_\_\_

TO COLLECT THE SAMPLE

1. Thoroughly rinse container.
2. Fill container and tighten cap.
3. List name, date, and time of collection on container.
4. Sample must be received within 3 days after collection.
5. Mail sample to: EOC Water Laboratory  
 SCDHEC, 2600 Bull Street  
 Columbia, S. C. 29201

Do Not Write In This Space

The results listed below either exceed the recommended limits or may cause certain problems. Please refer to the enclosed sheets for further information:

Reviewed by [Signature] 4/20

Log Number I-19-003 Laboratory Sample No. R04127104'

Routine Analyses

| Test         | Results   | Recommended Limits |
|--------------|-----------|--------------------|
| Total Solids | _____ ppm | 500 ppm            |
| Alkalinity   | _____ ppm | > 30 ppm           |
| pH           | _____     | 6.5-8.5            |
| Chloride     | _____ ppm | 250 ppm            |
| Hardness     | _____ ppm | 50-150 ppm         |
| Copper       | _____ ppm | 1.0 ppm            |
| Iron         | _____ ppm | 0.3 ppm            |
| Manganese    | _____ ppm | 0.05 ppm           |
| Zinc         | _____ ppm | 5.0 ppm            |

Lab Use Only

Fluoride Analysis

Fluoride \_\_\_\_\_ ppm 1.6 ppm

Organic or other Analyses

Pure hydrocarbon; gasoline present;  
density 0.758 g/ml

<: less than >: greater than ppm: parts per million

Date Reported 4/13/77

Released by M.J. Strussend  
S. Shrivastava.  
4-15-77



BOARD MEMBERS

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William C. Moore, Jr., D.M.D.

## SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER  
J. MARIÓN SIMS BUILDING — 2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201

MEMORANDUM

June 20, 1977

TO: William T. Lavender, Jr.  
Surveillance, Enforcement and Technical  
Assistance Section  
Water Supply Division

FROM: Stephen C. Thomas, Manager *ST*  
Enforcement Section  
Compliance/Enforcement/NPDES  
Administration Division

SUBJECT: Gasoline Contamination of Private Wells

The matter referenced in your April 28, 1977 memo, has been considered. Prior to proceeding in a unique area described in documentation provided, I requested legal opinions as to our jurisdiction in such matters. It was the opinion of the Compliance/Enforcement Division Director and Assistant Attorney General that jurisdiction does exist under the Pollution Control Act for the State of South Carolina.

A verbal opinion was also provided indicating that evidence to show that the gasoline holding tanks were actually leaking gasoline was not available. Reference R. E. Massey's statement of April 13, 1977:

"...we were never able to definitely pinpoint the source of contamination."

Russell W. Sherer's statement of October 16, 1974:

"...Allan Bartlett, EPA Emergency Response Team member ...stated that oil will maintain its integrity underground ...up to 100 yards. At greater distances biodegradation and chemical alteration makes comparison impossible."

And Henry Gibson's February 25, 1975 and January 5, 1976 letters:

"...The crucial question that we are faced with is how did the petroleum product get into the well."

"...the information is not conclusive enough to say that is the point of origin (that meaning Mr. Fulmer's tanks)."

At this point the evidence available is not conclusive in determining the tanks

William T. Lavender, C

Page 2

June 20, 1977

are leaking. If evidence proving leakage from the gas storage tanks can be produced a much stronger case for violations of Section 63-195.12(13a) can be presented.

cep

cc: Reggie Massey ✓

S. C. DEPT. OF HEALTH  
AND ENVIRONMENTAL CONTROL  
ENVIRONMENTAL QUALITY CONTROL  
J. MARION SIMS BUILDING  
COLUMBIA, SOUTH CAROLINA 29201

|   |                                 |                                |
|---|---------------------------------|--------------------------------|
| DATE<br>7/26/77                           |                                 | COUNTY<br>Edgefield            |
| PROJECT<br>Sid Gardens well               |                                 |                                |
| LOCATION<br>Hwy 398                       |                                 |                                |
| <input checked="" type="checkbox"/> WATER | <input type="checkbox"/> SEWAGE | <input type="checkbox"/> OTHER |
| PRESENT AT SITE<br>NAME                   |                                 | TITLE                          |
| Sid Gardens                               |                                 | Owner                          |
| Ray Murray                                |                                 | Tex.                           |

TO File: Contaminated Wells -  
Edgefield Co.

THE FOLLOWING WAS NOTED:

Mr. Gardens Res. is across the street  
from Phillip 66 Truck stop  
in an area where prior to the  
wells has been a problem.

Water did have a taste & odor problem  
and both organic & inorganic  
samples were taken for analysis.

Water Supply Division was made  
aware of problem.

FIELD INSPECTION REPORT

SIGNED Wayne Jones  
Dist. Eng.  
TITLE

- White -
- Canary -
- Pink -
- Goldenrod -



**Geological Resources, Inc.**



October 12, 2017

Mr. Austin Johnson  
SCDHEC  
2600 Bull Street  
Columbia, SC 29201

Re: Ground Water Monitoring Report  
August 2017  
378 Truck Stop  
731 US Highway 378  
Edgefield, Edgefield County, SC  
UST Permit #07960  
CA #55161  
GRI Project #4422

Dear Mr. Johnson,

Please find enclosed the referenced report for the above mentioned site.

If you have any questions, please contact Scott Ball at 704-845-4010.

Sincerely,  
**Geological Resources, Inc.**

*Jackie Donnelly*  
Jackie Donnelly  
Administrative Assistant

Enclosure

Cc: Mr. Kim Gwynn, Wilkerson Fuel Company

**GROUND WATER MONITORING REPORT  
AUGUST 2017  
378 TRUCK STOP  
731 U.S. HIGHWAY 378  
EDGEFIELD, EDGEFIELD COUNTY  
SOUTH CAROLINA  
UST PERMIT NO. 07960  
GRI PROJECT NO. 4422**

Prepared for:

Mr. Frank Wilkerson  
Wilkerson Oil Company  
Post Office Box 2835  
Rock Hill, South Carolina 29732

Prepared by:

Geological Resources, Inc.  
3502 Hayes Road  
Monroe, North Carolina 28110  
Class 1 UST Site Rehabilitation Contractor # 74

October 11, 2017



---

W. Scott Ball  
Senior Project Manager



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## APPENDICES

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| Appendix A: | Laboratory Analytical Report - Ground Water Samples                  |
| Appendix B: | Field Data Information Sheets  |
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## 1.0 INTRODUCTION

This report presents the results of comprehensive ground water sampling activities conducted on August 29 through 31, 2017 at the former 378 Truck Stop site, located at 731 U.S. Highway 378, Edgefield, Edgefield County, South Carolina (**Figure 1**). The activities were conducted in accordance with the Groundwater Sampling Directive dated July 27, 2017 from the South Carolina Department of Health and Environmental Control (SCDHEC). The purpose of the activities was to obtain current ground water quality data for the site. The site is currently vacant and contains an abandoned building previously used as a truck stop and petroleum retail facility. Adjacent properties are currently used for residential purposes.

A release from the UST system was reported to the SCDHEC in October 1974 and confirmed in July 1996. Reportedly, one 550-gallon diesel UST, one 1,000-gallon gasoline UST and one 2,000-gallon gasoline UST as well as associated product piping and dispensers were removed from the site in January 1997. No USTs are currently in use at the site. Both Tier I and Tier II site assessments have been conducted at the site. To date, a total of 31 Type II monitoring wells (MW-1 through MW-31) and nine telescoping monitoring wells (TW-1 through TW-9) have been installed at the site and surrounding properties. A total of 16 water supply wells (WSW-1 through WSW-15 and WSW-X) have been identified within a 500-foot radius of the source area. Both AFVR and ground water sampling events have reportedly been conducted at the site since completion of the Tier II activities in 2010.

The last comprehensive ground water sampling event conducted at the site occurred in July 2014. Contaminants of concern (COCs) above their respective risk-based screening levels (RBSLs) have been reported in several monitoring wells at the site. This report summarizes the August 2017 ground water monitoring results.

## 2.0 FACILITY INFORMATION

- **Facility Name:** 378 Truck Stop
- **Location:** 731 U.S. Highway 378  
Edgefield, Edgefield County, SC 29824
- **UST Permit No.** 07960
- **Land Use:** Commercial
- **Property Owner:** Old Truck Stop, LLC  
102 Faulkner Mountain Road  
Edgefield, SC 29824

(803) 637-5422

- **UST Owner/Operator:** Wilkerson Oil Company  
Post Office Box 2835  
Rock Hill, South Carolina 29732  
(803) 324-4080
- **Site Rehabilitation Contractor:** Geological Resources, Inc. (GRI)  
3502 Hayes Road  
Monroe, North Carolina 28110  
(704) 845-4010  
Class 1, Certification Number 74
- **Laboratory:** SGS-Accutest Laboratories - Southeast  
4405 Vineland Road, Suite C-15  
Orlando, FL 32811  
(407) 425-6700  
State Certification Number: 96038001

**Release Information:**

- **Date Discovered:** October 1974
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two gasoline USTs and one diesel UST
  
- **Latitude:** 33.937110°North      **Longitude:** 81.951158° West

**3.0 GROUND WATER QUALITY**

Thirty one Type III monitoring wells (MW-1 through MW-31) and nine telescoping monitoring wells (TW-1 through TW-9) were gauged on August 29, 2017. All monitoring wells were purged and sampled on August 30 and 31, 2017. In addition, water supply wells WSW-1 through WSW-5, WSW-7 through WSW-15 and WSW-X were sampled on August 31, 2017. Please note that water supply well WSW-6 was out-of-service and could not be sampled. In addition, water supply wells WSW-1 and WSW-8 both contained granular activated carbon filters. Therefore, both pre-treatment and post-treatment samples were collected from these wells. The depths to ground water in the Type III monitoring wells during the August 29, 2017 gauging event ranged from 19.54 to 35.91 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 70.59 to 77.78 feet. Based on this data, ground water flow across the area was generally toward the southwest. The depths to ground water in the telescoping monitoring wells during the August 29, 2017 gauging event ranged from 18.42 to 28.93 feet below the top of casings. Ground water elevations in the telescoping monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 71.70 to 79.71 feet. Based on this data, ground water flow across the

area in the telescoping wells was generally toward the southwest. The horizontal hydraulic gradient across the site determined from the Type III monitoring wells was approximately 0.008 feet per foot. The vertical hydraulic gradient calculated for paired wells MW-1/TW-1, MW-3/W-2, MW-9/TW-3, MW-10/TW-4, MW-12/TW-5, MW-16/TW-6, MW-17/TW-7, MW-19/TW-8 and MW-26/TW-9 were approximately 0.070 feet per foot downward, 0.011 feet per foot upward, 0.017 feet per foot upward, 0.055 feet per foot upward, 0.007 feet per foot upward, 0.010 feet per foot downward, 0.108 feet per foot upward, 0.003 feet per foot upward and 0.009 feet per foot downward, respectively. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. Summaries of ground water elevation data for the August 2017 sampling event are presented in **Table 1**. Potentiometric Surface Maps for the Type III monitoring wells and the telescoping monitoring wells based on the August 2017 gauging data have been included as **Figures 3 and 4**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the August 2017 sampling event for BTEX, MTBE, naphthalene, 1,2-dichloroethane (1,2-DCA) and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. Laboratory analyses were performed on the ground water samples collected from the water supply wells during the August 2017 sampling event for BTEX, MTBE, naphthalene and 1,2-DCA using EPA Method 524.2, 8 oxygenates using EPA Method 8260B and EDB using EPA Method 504.1 Concentrations of BTEX constituents, naphthalene, 1,2-DCA and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, MW-31, TW-1 and TW-2. Concentrations of the oxygenates TAA and/or TBA that exceeded the action levels were reported in the samples collected from MW-1, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, MW-31, TW-1 and TW-2. Detectable concentrations of benzene, ethylbenzene, xylenes, MTBE and/or 1,2-DCA were reported in the samples collected from water supply wells WSW-1 pre-treatment, WSW-1 post-treatment, WSW-3, WSW-8 pre-treatment, WSW-8 post-treatment, WSW-9, WSW-10, WSW-11, WSW-12 and WSW-14. However, none of the reported concentrations exceeded the RBSLs. Concentrations of oxygenates TAA and/or TBA were reported in the samples collected from water supply well WSW-1 pre-treatment, WSW-1 post-treatment, WSW-3, WSW-8 pre-treatment and WSW-8 post-treatment. However, none of the reported concentrations exceeded the action levels. A Ground Water Quality Map based on data from the August 2017 sampling event has been included as **Figure 5**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report has been included as **Appendix A**. Field Data Information Sheets are attached as **Appendix B**. Historical ground water elevation data and historical ground water quality data have been included as **Appendix C**. Approximately 228.78 gallons of purge water was generated

during the sampling event. The purge water was transported to a licensed facility for disposal. A copy of the Disposal Manifest has been included as **Appendix D**.

#### **4.0 QA/QC**

Monitoring well gauging, purging and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All wells were purged and sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-3 and MW-13 (MW-3 DUP A and MW-13 DUP B) and from WSW-1 pre-treatment (WSW-1 (pre) DUP C), one monitoring well field blank and one water supply well field blank were collected during the sampling activities. Laboratory provided trip blanks for the monitoring well and water supply well samples were included in the sample coolers. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. No detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix E**.

#### **5.0 CONCLUSIONS AND RECOMMENDATIONS**

- Thirty one Type III monitoring wells, nine telescoping monitoring wells and 15 water supply wells were gauged, purged and/or sampled between August 29 and 31, 2017.
- Ground water flow in the Type III monitoring wells and telescoping monitoring wells across the site was generally towards the southwest. The horizontal hydraulic gradient across the site was approximately 0.008 feet per foot. The vertical hydraulic gradient calculated for paired Type III and telescoping monitoring wells varied from 0.108 feet per foot upward for MW-17/TW-7 to 0.070 feet per foot downward for MW-1/TW-1.
- Concentrations of BTEX constituents, naphthalene, 1,2-DCA and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, MW-31, TW-1 and TW-2. Concentrations of oxygenates TAA and/or TBA that exceeded the action levels were reported in the samples collected from MW-1, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, MW-31, TW-1 and TW-2. Detectable concentrations of benzene, ethylbenzene, xylenes, MTBE and/or 1,2-DCA were reported in the samples collected from water supply wells WSW-1 pre-treatment, WSW-1 post-treatment, WSW-3, WSW-8 pre-treatment, WSW-8 post-treatment, WSW-9, WSW-10, WSW-11, WSW-12 and WSW-14. However, none of the reported concentrations exceeded

the RBSLs. Concentrations of oxygenates TAA and/or TBA were reported in the samples collected from water supply well WSW-1 pre-treatment, WSW-1 post-treatment, WSW-3, WSW-8 pre-treatment and WSW-8 post-treatment. However, none of the reported concentrations exceeded the action levels.

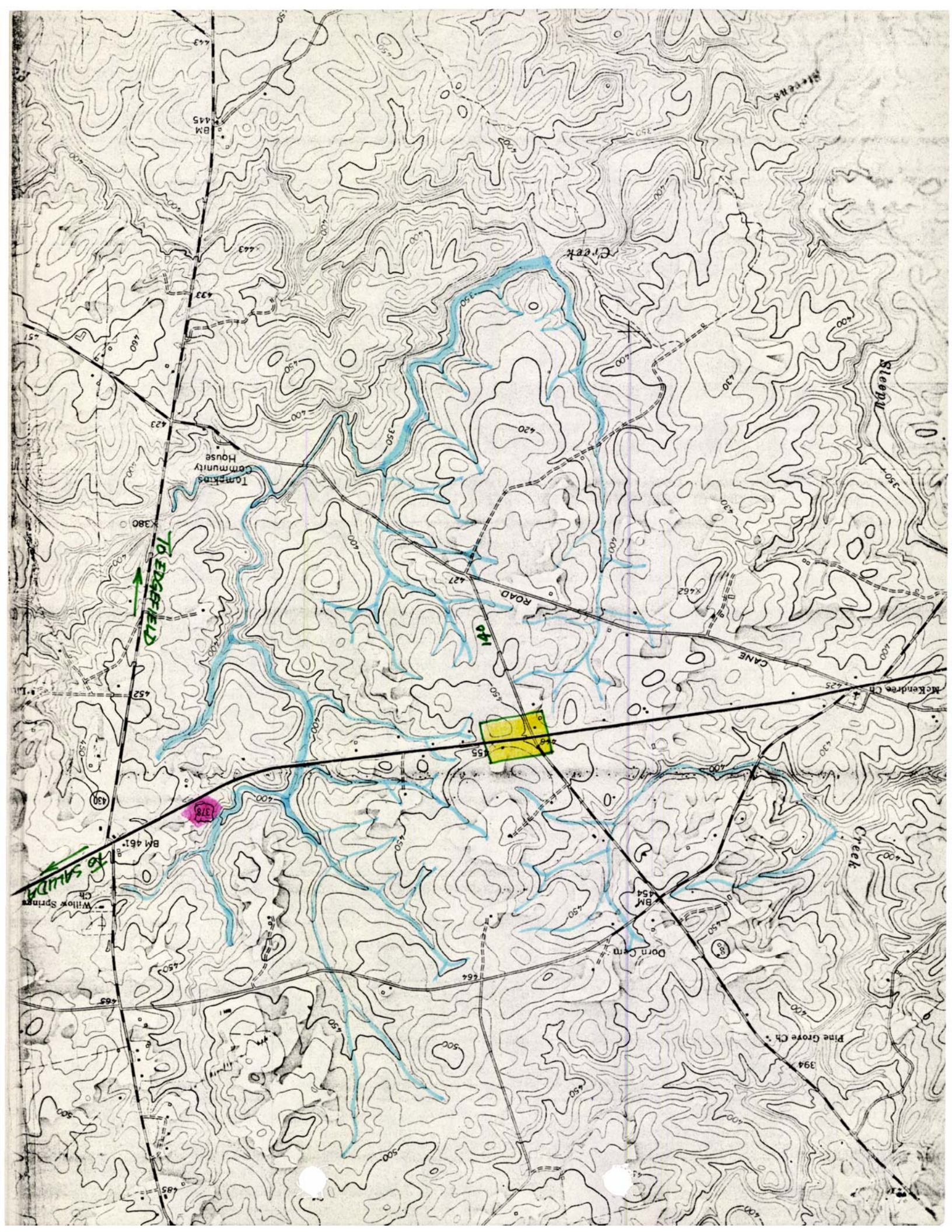
- GRI makes the following recommendations:
  - Due to the presence of water supply wells in the area, ground water sampling events should continue at the site.
  - AFVR events should be conducted on monitoring wells MW-1, MW-3, MW-7, MW-12, MW-13 and MW-22 to reduce the dissolved-phase contaminant concentrations in those wells.

## **6.0 LIMITATIONS**

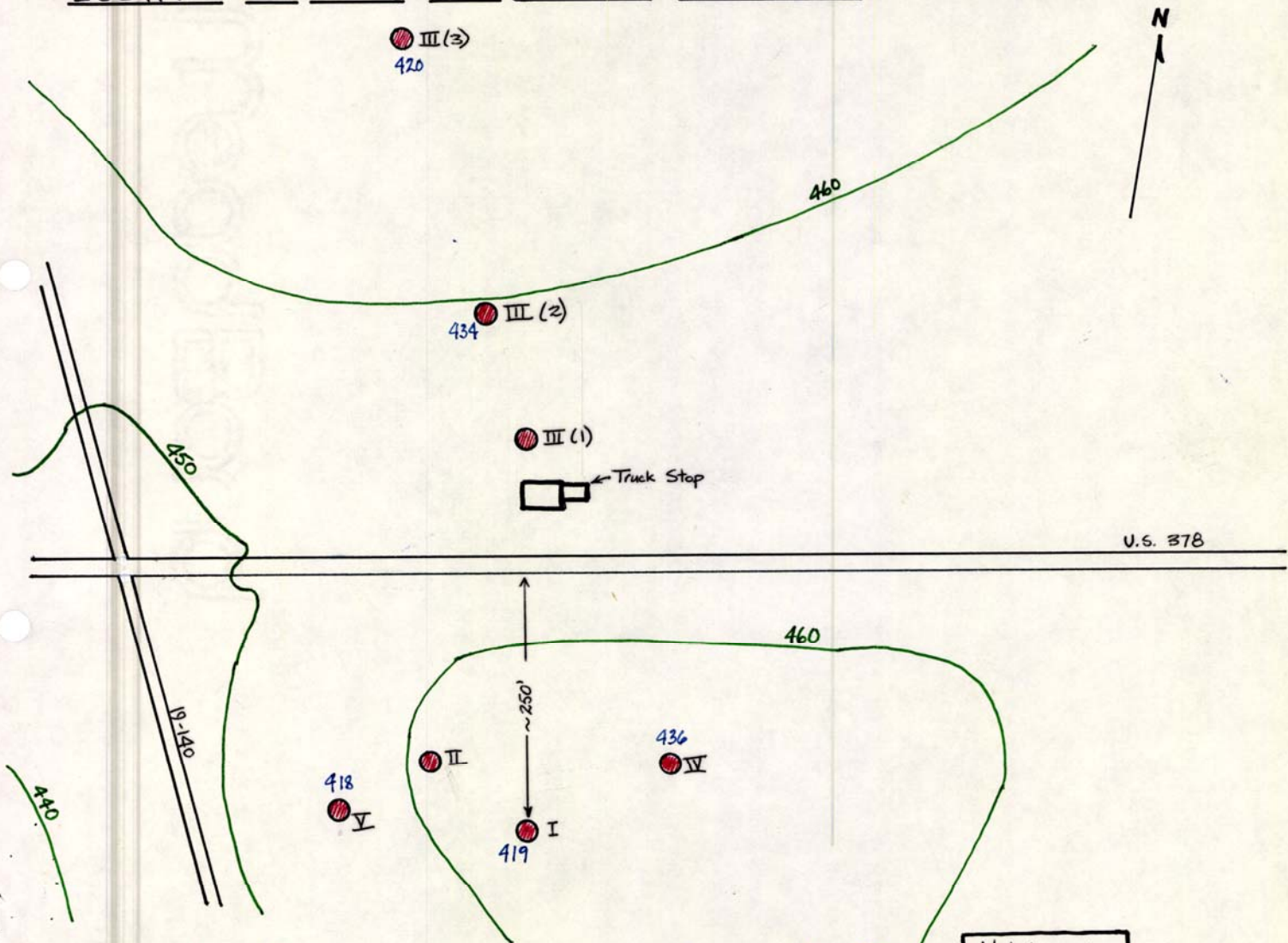
This report has been prepared for the exclusive use of Wilkerson Oil Company and the SCDHEC for specific application to the referenced site in Edgefield County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data. Please note that certain information contained in this report was not obtained under the direct supervision of GRI personnel. Therefore, GRI cannot verify the accuracy of this information. However, for the purpose of this report, GRI assumes the information is correct.

## **FIGURES**



# LOCATION OF WELLS AND GENERAL TOPOGRAPHY



— Contours taken from U.S.G.S. 7½ min. topo.

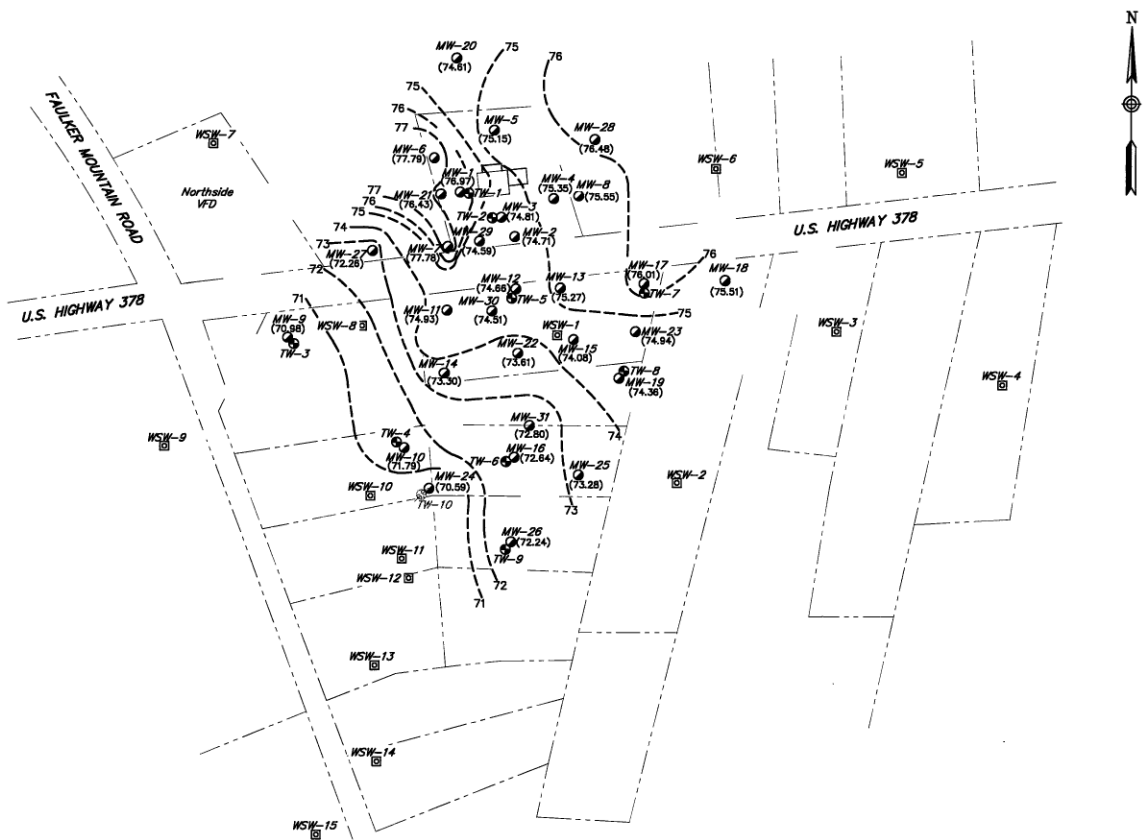
440 - approx. elev. of  $\nabla$

Not to scale

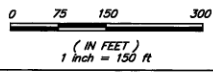


**LEGEND**

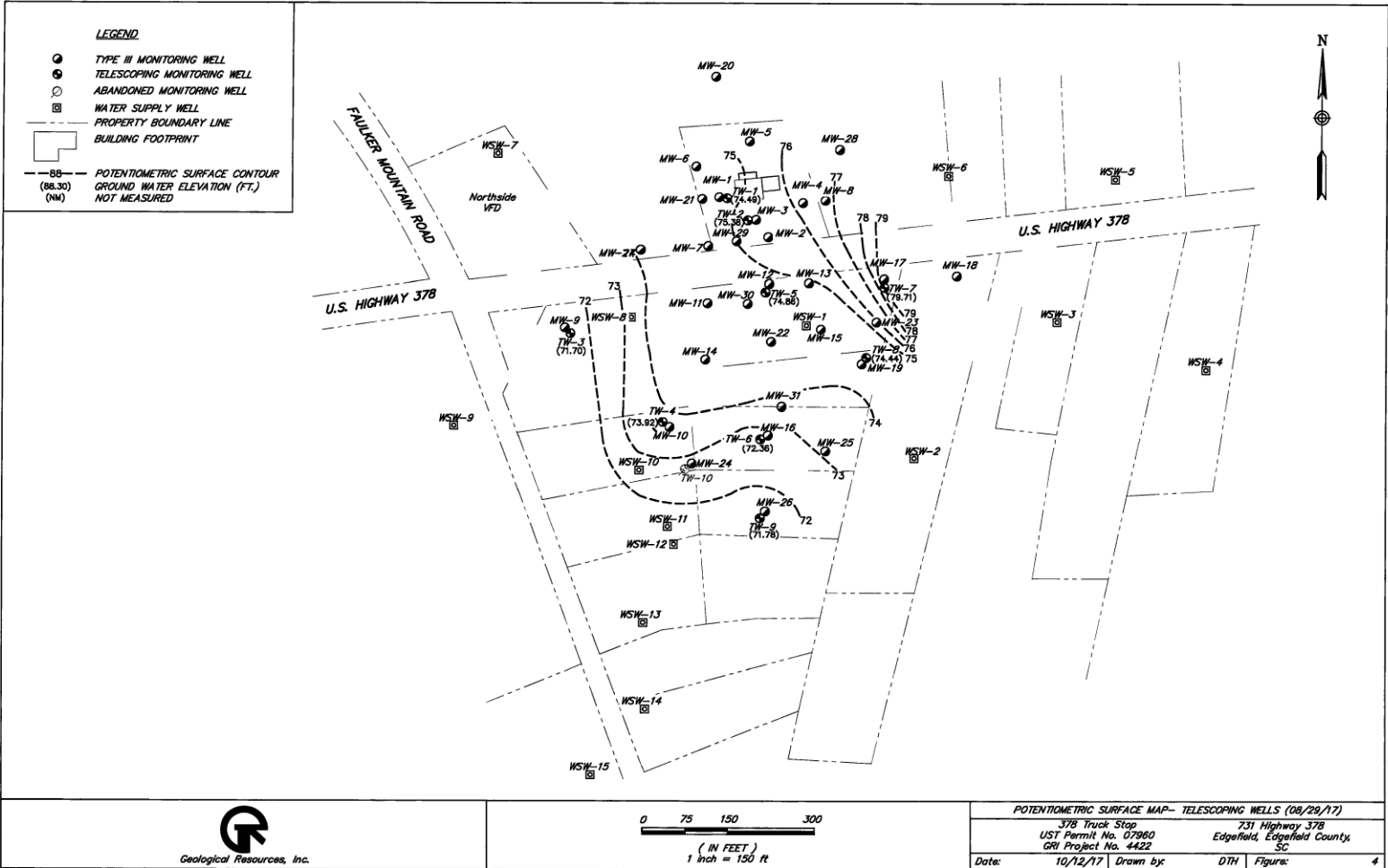
- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- ABANDONED MONITORING WELL
- WATER SUPPLY WELL
- PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT
- POTENTIOMETRIC SURFACE CONTOUR  
(88.30)  
(NM) NOT MEASURED



Geological Resources, Inc.

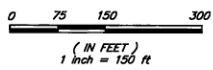


|   |          |                                 |           |
|---|----------|---------------------------------|-----------|
| POTENTIOMETRIC SURFACE MAP-- TYPE III MONITORING WELLS (08/29/17) |          |                                 |           |
| 378 Truck Stop  |          | 731 Highway 378                 |           |
| UST Permit No. 07960  |          | Edgefield, Edgefield County, SC |           |
| GRI Project No. 4422  |          |                                 |           |
| Date:   | 10/11/17 | Drawn by:                       | DTH       |
|   |          |                                 | Figure: J |



**LEGEND**

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- ABANDONED MONITORING WELL
- WATER SUPPLY WELL
- - - - PROPERTY BOUNDARY LINE
- BUILDING FOOTPRINT
- - - - POTENTIOMETRIC SURFACE CONTOUR (88.30) (NM)
- GROUND WATER ELEVATION (FT.)
- NOT MEASURED



Geological Resources, Inc.

**POTENTIOMETRIC SURFACE MAP - TELESCOPING WELLS (08/29/17)**

378 Truck Stop 731 Highway 378  
 UST Permit No. 07960 Edgefield, Edgefield County, SC  
 GRI Project No. 4422

Date: 10/12/17 Drawn by: DTH Figure: 4

**LEGEND**

- TYPE II MONITORING WELL
- TELESCOPING MONITORING WELL
- ABANDONED MONITORING WELL
- WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT

|        |              |
|--------|--------------|
| <0.140 | BENZENE      |
| <0.150 | TOLUENE      |
| <0.150 | ETHYLBENZENE |
| <0.200 | XYLENES      |
| <0.200 | NAPHTHALENE  |
| <0.300 | 1,2-DCA      |
| <0.150 | EDB          |

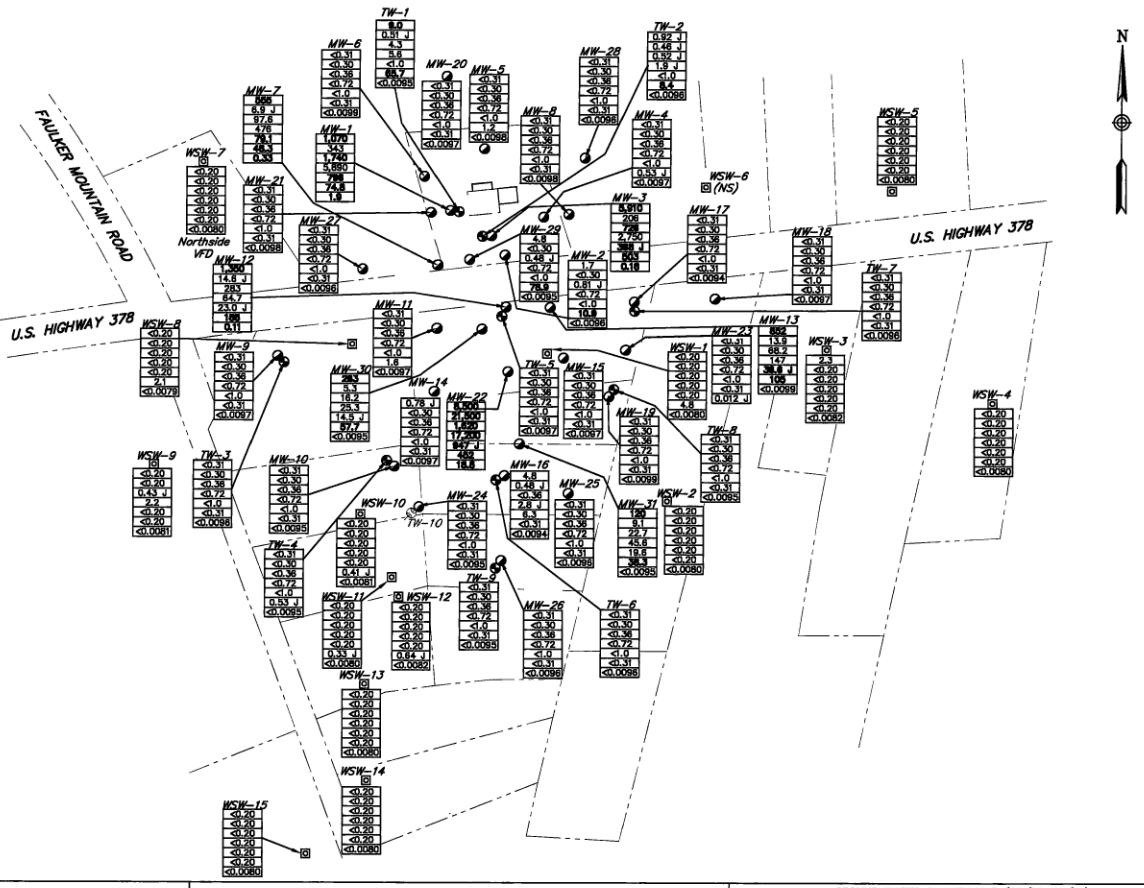
CONCENTRATIONS IN  $\mu\text{g/L}$

<0.140 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

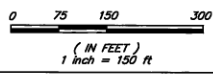
CONCENTRATIONS IN BOLD FACE TYPE EXCEEDED THE RBLS

(NS) NOT SAMPLED

"J" ESTIMATED VALUE



Geological Resources, Inc.



|  |               |                                 |  |
|--|---------------|---------------------------------|--|
| GROUND WATER QUALITY MAP (08/29-31/17) |               |                                 |  |
| 378 Truck Stop                         |               | 731 Highway 37B                 |  |
| UST Permit No. 07960                   |               | Edgefield, Edgefield County, SC |  |
| GRI Project No. 4422                   |               |                                 |  |
| Date: 10/12/17                         | Drawn by: DTH | Figure: 5                       |  |

## **TABLES**

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

| <b>Well No.</b> | <b>Date</b> | <b>Top of Casing Elevation</b> | <b>Depth to Ground Water</b> | <b>Ground Water Elevation</b> | <b>Constructed Well Depth</b> | <b>Screened Interval</b> |
|-----------------|-------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------|
| MW-1            | 08/29/17    | 101.98                         | 25.01                        | 76.97                         | 45                            | unknown                  |
| MW-2            | 08/29/17    | 100.99                         | 26.28                        | 74.71                         | 43                            | unknown                  |
| MW-3            | 08/29/17    | 101.54                         | 26.73                        | 74.81                         | 40                            | 10-40                    |
| MW-4            | 08/29/17    | 100.48                         | 25.13                        | 75.35                         | 40                            | 10-40                    |
| MW-5            | 08/29/17    | 104.18                         | 29.03                        | 75.15                         | 40                            | 20-40                    |
| MW-6            | 08/29/17    | 102.25                         | 24.46                        | 77.79                         | 35                            | 20-35                    |
| MW-7            | 08/29/17    | 99.72                          | 21.94                        | 77.78                         | 35                            | 20-35                    |
| MW-8            | 08/29/17    | 99.92                          | 24.37                        | 75.55                         | 35                            | 20-35                    |
| MW-9            | 08/29/17    | 94.83                          | 23.85                        | 70.98                         | 35                            | 20-35                    |
| MW-10           | 08/29/17    | 99.12                          | 27.33                        | 71.79                         | 40                            | 25-40                    |
| MW-11           | 08/29/17    | 102.61                         | 27.68                        | 74.93                         | 35                            | 20-35                    |
| MW-12           | 08/29/17    | 103.46                         | 28.80                        | 74.66                         | 35                            | 20-35                    |
| MW-13           | 08/29/17    | 101.48                         | 26.21                        | 75.27                         | 40                            | 25-40                    |
| MW-14           | 08/29/17    | 103.48                         | 30.18                        | 73.30                         | 40                            | 25-40                    |
| MW-15           | 08/29/17    | 103.16                         | 29.08                        | 74.08                         | 40                            | 25-40                    |
| MW-16           | 08/29/17    | 101.32                         | 28.68                        | 72.64                         | 40                            | 25-40                    |
| MW-17           | 08/29/17    | 98.40                          | 22.39                        | 76.01                         | 35                            | 20-35                    |
| MW-18           | 08/29/17    | 95.05                          | 19.54                        | 75.51                         | 35                            | 20-35                    |
| MW-19           | 08/29/17    | 101.07                         | 26.71                        | 74.36                         | 39                            | 24-39                    |
| MW-20           | 08/29/17    | 110.52                         | 35.91                        | 74.61                         | 45                            | 30-45                    |
| MW-21           | 08/29/17    | 101.70                         | 25.27                        | 76.43                         | 40                            | 25-40                    |
| MW-22           | 08/29/17    | 105.13                         | 31.52                        | 73.61                         | 40                            | 25-40                    |
| MW-23           | 08/29/17    | 100.01                         | 25.07                        | 74.94                         | 37                            | 22-37                    |
| MW-24           | 08/29/17    | 99.08                          | 28.49                        | 70.59                         | 40                            | 25-40                    |
| MW-25           | 08/29/17    | 101.54                         | 28.26                        | 73.28                         | 40                            | 25-40                    |
| MW-26           | 08/29/17    | 97.25                          | 25.01                        | 72.24                         | 39                            | 24-39                    |

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

| <b>Well No.</b> | <b>Date</b> | <b>Top of Casing Elevation</b> | <b>Depth to Ground Water</b> | <b>Ground Water Elevation</b> | <b>Constructed Well Depth</b> | <b>Screened Interval</b> |
|-----------------|-------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------|
| MW-27           | 08/29/17    | 97.20                          | 24.94                        | 72.26                         | 35                            | 20-35                    |
| MW-28           | 08/29/17    | 101.29                         | 24.81                        | 76.48                         | 40                            | 25-40                    |
| MW-29           | 08/29/17    | 101.08                         | 26.49                        | 74.59                         | 40                            | 25-40                    |
| MW-30           | 08/29/17    | 104.62                         | 30.11                        | 74.51                         | 45                            | 30-45                    |
| MW-31           | 08/29/17    | 103.20                         | 30.40                        | 72.80                         | 44                            | 29-44                    |
| TW-1            | 08/29/17    | 101.83                         | 27.34                        | 74.49                         | 63                            | 58-63                    |
| TW-2            | 08/29/17    | 101.97                         | 26.59                        | 75.38                         | 80                            | 75-80                    |
| TW-3            | 08/29/17    | 95.33                          | 23.63                        | 71.70                         | 80                            | 75-80                    |
| TW-4            | 08/29/17    | 99.23                          | 25.31                        | 73.92                         | 69                            | 64-69                    |
| TW-5            | 08/29/17    | 103.62                         | 28.76                        | 74.86                         | 59                            | 54-59                    |
| TW-6            | 08/29/17    | 101.29                         | 28.93                        | 72.36                         | 59                            | 54-59                    |
| TW-7            | 08/29/17    | 98.13                          | 18.42                        | 79.71                         | 59                            | 54-59                    |
| TW-8            | 08/29/17    | 101.03                         | 26.59                        | 74.44                         | 59                            | 54-59                    |
| TW-9            | 08/29/17    | 96.92                          | 25.14                        | 71.78                         | 80                            | 75-80                    |

Note:

- Ground water elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.

**TABLE 2  
SUMMARY OF LABORATORY ANALYTICAL RESULTS  
GROUND WATER SAMPLES  
CHEMICALS OF CONCERN  
378 TRUCK STOP  
UST PERMIT # 07960**

| Well No.           | Date     | Benzene  | Toluene      | Ethylbenzene | Xylenes       | MTBE      | Naphthalene | 1,2-DCA  | EDB         |
|--------------------|----------|----------|--------------|--------------|---------------|-----------|-------------|----------|-------------|
| <b>RBSL (µg/l)</b> |          | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>   | <b>5</b> | <b>0.05</b> |
| MW-1               | 08/31/17 | 1,070    | 343          | 1,740        | 5,890         | <4.6      | 796         | 74.8     | 1.9         |
| MW-2               | 08/31/17 | 1.7      | <0.30        | 0.81 J       | <0.72         | <0.23     | <1.0        | 10.9     | <0.0096     |
| MW-3               | 08/30/17 | 5,910    | 206          | 726          | 2,750         | <23       | 398 J       | 503      | 0.18        |
| MW-3<br>DUP A      | 08/30/17 | 7,510    | 292          | 1,090        | 3,550         | <23       | 415 J       | 523      | 0.21        |
| MW-4               | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | 0.53 J   | <0.0097     |
| MW-5               | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | 1.2      | <0.0098     |
| MW-6               | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0099     |
| MW-7               | 08/31/17 | 555      | 6.9 J        | 97.6         | 476           | <2.3      | 79.1        | 48.3     | 0.33        |
| MW-8               | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0098     |
| MW-9               | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0097     |
| MW-10              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0095     |
| MW-11              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | 1.6      | <0.0097     |
| MW-12              | 08/30/17 | 1,350    | 14.6 J       | 283          | 64.7          | <4.6      | 23.0 J      | 188      | 0.11        |
| MW-13              | 08/30/17 | 852      | 13.9         | 68.2         | 147           | <2.3      | 36.6 J      | 105      | <0.0099     |
| MW-13<br>DUP B     | 08/30/17 | 872      | 15.7 J       | 72.5         | 154           | <4.6      | 33.2 J      | 112      | <0.0095     |
| MW-14              | 08/30/17 | 0.78 J   | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0097     |
| MW-15              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0097     |
| MW-16              | 08/30/17 | 4.8      | 0.48 J       | <0.36        | 2.8 J         | <0.23     | 6.3         | <0.31    | <0.0094     |
| MW-17              | 08/29/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0094     |
| MW-18              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0097     |
| MW-19              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0099     |
| MW-20              | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0097     |
| MW-21              | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0098     |
| MW-22              | 08/30/17 | 8,500    | 21,500       | 1,620        | 17,200        | <46       | 947 J       | 452      | 18.8        |
| MW-23              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | 0.012 J     |
| MW-24              | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0095     |

**TABLE 2  
SUMMARY OF LABORATORY ANALYTICAL RESULTS  
GROUND WATER SAMPLES  
CHEMICALS OF CONCERN  
378 TRUCK STOP  
UST PERMIT # 07960**

| Well No.                | Date     | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE   | Naphthalene | 1,2-DCA | EDB     |
|-------------------------|----------|---------|---------|--------------|---------|--------|-------------|---------|---------|
| RBSL (µg/l)             |          | 5       | 1,000   | 700          | 10,000  | 40     | 25          | 5       | 0.05    |
| MW-25                   | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-26                   | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-27                   | 08/31/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-28                   | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-29                   | 08/31/17 | 4.8     | <0.30   | 0.48 J       | <0.72   | 2.1    | <1.0        | 78.9    | <0.0095 |
| MW-30                   | 08/30/17 | 263     | 5.3     | 16.2         | 25.3    | <1.1   | 14.5 J      | 57.7    | <0.0095 |
| MW-31                   | 08/30/17 | 120     | 9.1     | 22.7         | 45.6    | <0.46  | 19.6        | 38.3    | <0.0095 |
| TW-1                    | 08/30/17 | 9.0     | 0.51 J  | 4.3          | 5.6     | 6.5    | <1.0        | 65.7    | <0.0095 |
| TW-2                    | 08/30/17 | 0.92 J  | 0.46 J  | 0.52 J       | 1.9 J   | 0.40 J | <1.0        | 8.4     | <0.0096 |
| TW-3                    | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| TW-4                    | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | 0.53 J  | <0.0095 |
| TW-5                    | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0097 |
| TW-6                    | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| TW-7                    | 08/29/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| TW-8                    | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0095 |
| TW-9                    | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0095 |
| Field Blank             | 08/31/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| Trip Blank              | 08/31/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | NR      |
| WSW-1<br>(Pre)          | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | 4.8     | <0.0080 |
| WSW-1<br>(Pre)<br>DUP C | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | 4.7     | <0.0080 |
| WSW-1<br>(Post)         | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | 1.4     | <0.0080 |
| WSW-2                   | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | <0.20   | <0.0080 |



**TABLE 2  
SUMMARY OF LABORATORY ANALYTICAL RESULTS  
GROUND WATER SAMPLES  
CHEMICALS OF CONCERN  
378 TRUCK STOP  
UST PERMIT # 07960**

| Well No.           | Date     | Benzene  | Toluene      | Ethylbenzene | Xylenes       | MTBE      | Naphthalene | 1,2-DCA  | EDB         |
|--------------------|----------|----------|--------------|--------------|---------------|-----------|-------------|----------|-------------|
| <b>RBSL (µg/l)</b> |          | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>   | <b>5</b> | <b>0.05</b> |
| WSW-3              | 08/31/17 | 2.3      | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0082     |
| WSW-4              | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-5              | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-6              | 08/31/17 | NS       | NS           | NS           | NS            | NS        | NS          | NS       | NS          |
| WSW-7              | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-8<br>(Pre)     | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 2.1      | <0.0080     |
| WSW-8<br>(Post)    | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.43 J   | <0.0079     |
| WSW-9              | 08/31/17 | <0.20    | <0.20        | 0.43 J       | 2.2           | <0.20     | <0.20       | <0.20    | <0.0081     |
| WSW-10             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.41 J   | <0.0081     |
| WSW-11             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.33 J   | <0.0080     |
| WSW-12             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.64 J   | <0.0082     |
| WSW-13             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-14             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | 0.91      | <0.20       | <0.20    | <0.0080     |
| WSW-15             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-X              | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0079     |
| WSW<br>Field Blank | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW<br>Trip Blank  | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | NR          |

Notes:

- Monitoring well samples analyzed for BTEX constituents, MTBE, naphthalene & 1,2-DCA by Method 8260B and EDB by Method 8011; results reported in µg/l.
- Water supply well samples analyzed for BTEX constituents, MTBE, naphthalene & 1,2-DCA by Method 524.2 and EDB by Method 504.1; results reported in µg/l.
- Concentrations in bold face type exceeded the RBSLs.
- RBSL: Risk-Based Screening Levels.
- J: Estimated value
- NS: Not sampled.
- NR: Analysis not requested.

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES - OXYGENATES**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

| Well No.                    | Date     | IPE        | ETBA      | Ethanol       | ETBE      | TAA        | TAME       | TBA          | TBF       |
|-----------------------------|----------|------------|-----------|---------------|-----------|------------|------------|--------------|-----------|
| <b>Action Levels (µg/l)</b> |          | <b>150</b> | <b>NE</b> | <b>10,000</b> | <b>47</b> | <b>240</b> | <b>128</b> | <b>1,400</b> | <b>NE</b> |
| MW-1                        | 08/31/17 | <4.8       | <200      | <1,600        | <4.7      | 2,750      | <4.9       | <110         | <100      |
| MW-2                        | 08/31/17 | 0.45 J     | <10       | <82           | <0.24     | 86.8       | <0.24      | 429          | <5.0      |
| MW-3                        | 08/30/17 | 30.0 J     | <1,000    | <8,200        | <24       | 11,700     | <24        | <530         | <500      |
| MW-3<br>DUP A               | 08/30/17 | 35.6 J     | <1,000    | <8,200        | <24       | 10,800     | <24        | <530         | <500      |
| MW-4                        | 08/31/17 | <0.24      | <10       | <82           | <0.24     | 38.3       | <0.24      | <5.3         | <5.0      |
| MW-5                        | 08/31/17 | <0.24      | <10       | <82           | <0.24     | 30.7       | <0.24      | <5.3         | <5.0      |
| MW-6                        | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-7                        | 08/31/17 | <2.4       | <100      | <820          | <2.4      | 2,230      | <2.4       | <53          | <50       |
| MW-8                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-9                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-10                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-11                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | 23.0       | <0.24      | <5.3         | <5.0      |
| MW-12                       | 08/30/17 | 9.6 J      | <200      | <1,600        | <4.7      | 3,970      | <4.9       | 1,930        | <100      |
| MW-13                       | 08/30/17 | <2.4       | <100      | <820          | <2.4      | 3,680      | <2.4       | <53          | <50       |
| MW-13<br>DUP B              | 08/30/17 | <4.8       | <200      | <1,600        | <4.7      | 3,830      | <4.9       | <110         | <100      |
| MW-14                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | 35.8       | <0.24      | <5.3         | <5.0      |
| MW-15                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-16                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | 37.4       | <0.24      | <5.3         | <5.0      |
| MW-17                       | 08/29/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-18                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-19                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-20                       | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-21                       | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-22                       | 08/30/17 | <48        | <2,000    | <16,000       | <47       | 6,370      | <49        | <1,100       | <1,000    |
| MW-23                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-24                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-25                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-26                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-27                       | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-28                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| MW-29                       | 08/31/17 | 2.5 J      | <10       | <82           | <0.24     | 4,700      | <0.24      | 388          | <5.0      |
| MW-30                       | 08/30/17 | 4.0 J      | <50       | <410          | <1.2      | 2,480      | <1.2       | 694          | <25       |
| MW-31                       | 08/30/17 | 1.6 J      | <20       | <160          | <0.47     | 602        | <0.49      | 50.4         | <10       |
| TW-1                        | 08/30/17 | 1.5 J      | <10       | <82           | <0.24     | 1,080      | <0.24      | 67.8         | <5.0      |
| TW-2                        | 08/30/17 | 0.58 J     | <10       | <82           | <0.24     | 321        | <0.24      | 19.8 J       | <5.0      |
| TW-3                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-4                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-5                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES - OXYGENATES**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

| Well No.                    | Date     | IPE        | ETBA      | Ethanol       | ETBE      | TAA        | TAME       | TBA          | TBF       |
|-----------------------------|----------|------------|-----------|---------------|-----------|------------|------------|--------------|-----------|
| <b>Action Levels (µg/l)</b> |          | <b>150</b> | <b>NE</b> | <b>10,000</b> | <b>47</b> | <b>240</b> | <b>128</b> | <b>1,400</b> | <b>NE</b> |
| TW-6                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-7                        | 08/29/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-8                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-9                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| Field Blank                 | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| Trip Blank                  | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| WSW-1 (Pre)                 | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 160        | <0.42      | 37           | <2.0      |
| WSW-1 (Pre) DUP C           | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 160        | <0.42      | 38           | <2.0      |
| WSW-1 (Post)                | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 110        | <0.42      | 41           | <2.0      |
| WSW-2                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-3                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | 39           | <2.0      |
| WSW-4                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-5                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-6                       | 08/31/17 | NS         | NS        | NS            | NS        | NS         | NS         | NS           | NS        |
| WSW-7                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-8 (Pre)                 | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 38         | <0.42      | <8.0         | <2.0      |
| WSW-8 (Post)                | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 8.5 J      | <0.42      | <8.0         | <2.0      |
| WSW-9                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-10                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-11                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-12                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-13                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-14                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-15                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-X                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW Field Blank             | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW Trip Blank              | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |

**Notes:**

- Analyses for selected oxygenates by EPA Method 8260B; results reported in µg/l.
- <: Less than the method detection limit specified in the laboratory report.
- J: Estimated concentrations less than the Reporting Limit but greater than or equal to the Method Detection Limit.
- NS: Not sampled.
- NE: Not established.

## **APPENDICES**

**APPENDIX A**

**Laboratory Analytical Report – Ground Water Samples**

# SGS

## ACCUTEST Southeast

09/20/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,  
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*e-Hardcopy 2.0*  
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### Technical Report for

GRI (Geological Resources Inc.)

378 Truck Stop; 731 Hwy 378, Edgefield, SC

07960/4422

SGS Accutest Job Number: FA47290

Sampling Dates: 08/29/17 - 08/31/17

Report to:

GRI (Geological Resources Inc.)

[wsb@geologicalresourcesinc.com](mailto:wsb@geologicalresourcesinc.com)

ATTN: Scott Ball

Total number of pages in report: **210**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.  
General Manager

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Test results relate only to samples analyzed.

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## Sample Summary

GRI (Geological Resources Inc.)

Job No: FA47290

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
Project No: 07960/4422

| Sample Number | Collected |       | Time By | Received | Matrix |              | Client Sample ID |
|---------------|-----------|-------|---------|----------|--------|--------------|------------------|
|               | Date      |       |         |          | Code   | Type         |                  |
| FA47290-1     | 08/31/17  | 07:50 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-1       |
| FA47290-2     | 08/31/17  | 07:23 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-2       |
| FA47290-3     | 08/30/17  | 15:07 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-3       |
| FA47290-4     | 08/31/17  | 09:56 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-4       |
| FA47290-5     | 08/31/17  | 09:41 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-5       |
| FA47290-6     | 08/31/17  | 08:21 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-6       |
| FA47290-7     | 08/31/17  | 07:21 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-7       |
| FA47290-8     | 08/30/17  | 07:38 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-8       |
| FA47290-9     | 08/30/17  | 14:14 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-9       |
| FA47290-10    | 08/30/17  | 13:33 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-10      |
| FA47290-11    | 08/30/17  | 16:28 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-11      |
| FA47290-12    | 08/30/17  | 15:39 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-12      |
| FA47290-13    | 08/30/17  | 16:11 | CB      | 09/01/17 | AQ     | Ground Water | 07960-MW-13      |



## Sample Summary

(continued)

GRI (Geological Resources Inc.)

Job No: FA47290

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
 Project No: 07960/4422

| Sample Number | Collected |          | Received | Matrix |              | Client Sample ID |
|---------------|-----------|----------|----------|--------|--------------|------------------|
|               | Date      | Time By  |          | Code   | Type         |                  |
| FA47290-14    | 08/30/17  | 16:57 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-14      |
| FA47290-15    | 08/30/17  | 16:41 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-15      |
| FA47290-16    | 08/30/17  | 10:26 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-16      |
| FA47290-17    | 08/29/17  | 18:26 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-17      |
| FA47290-18    | 08/30/17  | 08:52 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-18      |
| FA47290-19    | 08/30/17  | 09:36 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-19      |
| FA47290-20    | 08/31/17  | 08:56 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-20      |
| FA47290-21    | 08/31/17  | 08:31 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-21      |
| FA47290-22    | 08/30/17  | 15:56 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-22      |
| FA47290-23    | 08/30/17  | 09:00 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-23      |
| FA47290-24    | 08/30/17  | 11:02 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-24      |
| FA47290-25    | 08/30/17  | 09:57 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-25      |
| FA47290-26    | 08/30/17  | 12:39 CB | 09/01/17 | AQ     | Ground Water | 07960-MW-26      |

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**Sample Summary**  
(continued)

GRI (Geological Resources Inc.)

Job No: FA47290

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
Project No: 07960/4422

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type            | Client Sample ID |
|---------------|----------------|---------|----------|-------------|-----------------|------------------|
| FA47290-27    | 08/31/17       | 09:53   | CB       | 09/01/17    | AQ Ground Water | 07960-MW-27      |
| FA47290-28    | 08/30/17       | 08:24   | CB       | 09/01/17    | AQ Ground Water | 07960-MW-28      |
| FA47290-29    | 08/31/17       | 08:11   | CB       | 09/01/17    | AQ Ground Water | 07960-MW-29      |
| FA47290-30    | 08/30/17       | 16:13   | CB       | 09/01/17    | AQ Ground Water | 07960-MW-30      |
| FA47290-31    | 08/30/17       | 10:14   | CB       | 09/01/17    | AQ Ground Water | 07960-MW-31      |
| FA47290-32    | 08/30/17       | 15:02   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-1       |
| FA47290-33    | 08/30/17       | 14:50   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-2       |
| FA47290-34    | 08/30/17       | 14:08   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-3       |
| FA47290-35    | 08/30/17       | 13:41   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-4       |
| FA47290-36    | 08/30/17       | 15:36   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-5       |
| FA47290-37    | 08/30/17       | 10:42   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-6       |
| FA47290-38    | 08/29/17       | 17:53   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-7       |
| FA47290-39    | 08/30/17       | 09:43   | CB       | 09/01/17    | AQ Ground Water | 07960-TW-8       |



## Sample Summary

(continued)

GRI (Geological Resources Inc.)

Job No: FA47290

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
 Project No: 07960/4422

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type                 | Client Sample ID   |
|---------------|----------------|---------|----------|-------------|----------------------|--------------------|
| FA47290-40    | 08/30/17       | 12:59   | CB       | 09/01/17    | AQ Ground Water      | 07960-TW-9         |
| FA47290-41    | 08/30/17       | 12:00   | CB       | 09/01/17    | AQ Ground Water      | 07960-DUP-1        |
| FA47290-42    | 08/30/17       | 12:01   | CB       | 09/01/17    | AQ Ground Water      | 07960-DUP-2        |
| FA47290-43    | 08/31/17       | 07:42   | CB       | 09/01/17    | AQ Field Blank Water | 07960-FIELD BLANK  |
| FA47290-44    | 08/31/17       | 07:00   | CB       | 09/01/17    | AQ Trip Blank Water  | 07960-TRIP BLANK   |
| FA47290-45    | 08/31/17       | 10:14   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-1 (PRE)  |
| FA47290-46    | 08/31/17       | 10:17   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-1 (POST) |
| FA47290-47    | 08/31/17       | 12:02   | CB       | 09/01/17    | DW Drinking Water    | 07960-DUP-C        |
| FA47290-48    | 08/31/17       | 12:30   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-2        |
| FA47290-49    | 08/31/17       | 12:49   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-3        |
| FA47290-50    | 08/31/17       | 13:11   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-4        |
| FA47290-51    | 08/31/17       | 12:56   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-5        |
| FA47290-52    | 08/31/17       | 11:40   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-14       |



**Sample Summary**

(continued)

GRI (Geological Resources Inc.)

Job No: FA47290

378 Truck Stop; 731 Hwy 378, Edgefield, SC

Project No: 07960/4422

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type                 | Client Sample ID     |
|---------------|----------------|---------|----------|-------------|----------------------|----------------------|
| FA47290-53    | 08/31/17       | 10:31   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-7          |
| FA47290-54    | 08/31/17       | 10:47   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-8 (PRE)    |
| FA47290-55    | 08/31/17       | 10:51   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-8 (POST)   |
| FA47290-56    | 08/31/17       | 11:01   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-9          |
| FA47290-57    | 08/31/17       | 11:11   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-10         |
| FA47290-58    | 08/31/17       | 11:23   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-11         |
| FA47290-59    | 08/31/17       | 11:32   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-12         |
| FA47290-60    | 08/31/17       | 12:01   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-13         |
| FA47290-61    | 08/31/17       | 11:51   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-15         |
| FA47290-62    | 08/31/17       | 14:03   | CB       | 09/01/17    | DW Drinking Water    | 07960-WSW-X          |
| FA47290-63    | 08/31/17       | 13:43   | CB       | 09/01/17    | DW Drinking Water FB | 07960-WSW-FB         |
| FA47290-64    | 08/31/17       | 07:01   | CB       | 09/01/17    | DW Drinking Water TB | 07960-WSW-TRIP BLANK |

## Summary of Hits

Job Number: FA47290  
Account: GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
Collected: 08/29/17 thru 08/31/17

| Lab Sample ID                    | Client Sample ID  | Result/<br>Qual | RL    | MDL    | Units | Method      |
|----------------------------------|-------------------|-----------------|-------|--------|-------|-------------|
| <b>FA47290-1</b>                 | <b>07960-MW-1</b> |                 |       |        |       |             |
| Benzene                          |                   | 1070            | 20    | 6.2    | ug/l  | SW846 8260B |
| Toluene                          |                   | 343             | 20    | 6.0    | ug/l  | SW846 8260B |
| Ethylbenzene                     |                   | 1740            | 20    | 7.1    | ug/l  | SW846 8260B |
| Xylene (total)                   |                   | 5890            | 300   | 72     | ug/l  | SW846 8260B |
| Naphthalene                      |                   | 796             | 100   | 20     | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                   | 74.8            | 20    | 6.2    | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                   | 2750            | 400   | 110    | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>   |                   | 1.9             | 0.39  | 0.19   | ug/l  | SW846 8011  |
| <b>FA47290-2</b>                 | <b>07960-MW-2</b> |                 |       |        |       |             |
| Benzene                          |                   | 1.7             | 1.0   | 0.31   | ug/l  | SW846 8260B |
| Ethylbenzene                     |                   | 0.81 J          | 1.0   | 0.36   | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                   | 10.9            | 1.0   | 0.31   | ug/l  | SW846 8260B |
| Di-Isopropyl Ether               |                   | 0.45 J          | 1.0   | 0.24   | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                   | 86.8            | 20    | 5.3    | ug/l  | SW846 8260B |
| Tert-Butyl Alcohol               |                   | 429             | 20    | 5.3    | ug/l  | SW846 8260B |
| <b>FA47290-3</b>                 | <b>07960-MW-3</b> |                 |       |        |       |             |
| Benzene                          |                   | 5910            | 100   | 31     | ug/l  | SW846 8260B |
| Toluene                          |                   | 206             | 100   | 30     | ug/l  | SW846 8260B |
| Ethylbenzene                     |                   | 726             | 100   | 36     | ug/l  | SW846 8260B |
| Xylene (total)                   |                   | 2750            | 300   | 72     | ug/l  | SW846 8260B |
| Naphthalene                      |                   | 398 J           | 500   | 100    | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                   | 503             | 100   | 31     | ug/l  | SW846 8260B |
| Di-Isopropyl Ether               |                   | 30.0 J          | 100   | 24     | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                   | 11700           | 2000  | 530    | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>   |                   | 0.18            | 0.019 | 0.0096 | ug/l  | SW846 8011  |
| <b>FA47290-4</b>                 | <b>07960-MW-4</b> |                 |       |        |       |             |
| 1,2-Dichloroethane               |                   | 0.53 J          | 1.0   | 0.31   | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                   | 38.3            | 20    | 5.3    | ug/l  | SW846 8260B |
| <b>FA47290-5</b>                 | <b>07960-MW-5</b> |                 |       |        |       |             |
| 1,2-Dichloroethane               |                   | 1.2             | 1.0   | 0.31   | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                   | 30.7            | 20    | 5.3    | ug/l  | SW846 8260B |
| <b>FA47290-6</b>                 | <b>07960-MW-6</b> |                 |       |        |       |             |
| No hits reported in this sample. |                   |                 |       |        |       |             |

## Summary of Hits

**Job Number:** FA47290  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 08/29/17 thru 08/31/17

| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|----|-----|-------|--------|
|--------------------------|------------------|-----------------|----|-----|-------|--------|

**FA47290-7      07960-MW-7**

|                     |  |       |       |        |      |             |
|---------------------|--|-------|-------|--------|------|-------------|
| Benzene             |  | 555   | 10    | 3.1    | ug/l | SW846 8260B |
| Toluene             |  | 6.9 J | 10    | 3.0    | ug/l | SW846 8260B |
| Ethylbenzene        |  | 97.6  | 10    | 3.6    | ug/l | SW846 8260B |
| Xylene (total)      |  | 476   | 30    | 7.2    | ug/l | SW846 8260B |
| Naphthalene         |  | 79.1  | 50    | 10     | ug/l | SW846 8260B |
| 1,2-Dichloroethane  |  | 48.3  | 10    | 3.1    | ug/l | SW846 8260B |
| Tert-Amyl Alcohol   |  | 2230  | 200   | 53     | ug/l | SW846 8260B |
| 1,2-Dibromoethane * |  | 0.33  | 0.020 | 0.0099 | ug/l | SW846 8011  |

**FA47290-8      07960-MW-8**

No hits reported in this sample.

**FA47290-9      07960-MW-9**

No hits reported in this sample.

**FA47290-10      07960-MW-10**

No hits reported in this sample.

**FA47290-11      07960-MW-11**

|                    |  |      |     |      |      |             |
|--------------------|--|------|-----|------|------|-------------|
| 1,2-Dichloroethane |  | 1.6  | 1.0 | 0.31 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  |  | 23.0 | 20  | 5.3  | ug/l | SW846 8260B |

**FA47290-12      07960-MW-12**

|                     |  |        |       |        |      |             |
|---------------------|--|--------|-------|--------|------|-------------|
| Benzene             |  | 1350   | 20    | 6.2    | ug/l | SW846 8260B |
| Toluene             |  | 14.6 J | 20    | 6.0    | ug/l | SW846 8260B |
| Ethylbenzene        |  | 283    | 20    | 7.1    | ug/l | SW846 8260B |
| Xylene (total)      |  | 64.7   | 60    | 14     | ug/l | SW846 8260B |
| Naphthalene         |  | 23.0 J | 100   | 20     | ug/l | SW846 8260B |
| 1,2-Dichloroethane  |  | 188    | 20    | 6.2    | ug/l | SW846 8260B |
| Di-Isopropyl Ether  |  | 9.6 J  | 20    | 4.8    | ug/l | SW846 8260B |
| Tert-Amyl Alcohol   |  | 3970   | 400   | 110    | ug/l | SW846 8260B |
| Tert-Butyl Alcohol  |  | 1930   | 400   | 110    | ug/l | SW846 8260B |
| 1,2-Dibromoethane * |  | 0.11   | 0.020 | 0.0098 | ug/l | SW846 8011  |

**FA47290-13      07960-MW-13**

|         |  |     |    |     |      |             |
|---------|--|-----|----|-----|------|-------------|
| Benzene |  | 852 | 10 | 3.1 | ug/l | SW846 8260B |
|---------|--|-----|----|-----|------|-------------|

# Summary of Hits

**Job Number:** FA47290  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 08/29/17 thru 08/31/17

| Lab Sample ID                    | Client Sample ID | Result/<br>Qual | RL  | MDL  | Units | Method      |
|----------------------------------|------------------|-----------------|-----|------|-------|-------------|
| Toluene                          |                  | 13.9            | 10  | 3.0  | ug/l  | SW846 8260B |
| Ethylbenzene                     |                  | 68.2            | 10  | 3.6  | ug/l  | SW846 8260B |
| Xylene (total)                   |                  | 147             | 30  | 7.2  | ug/l  | SW846 8260B |
| Naphthalene                      |                  | 36.6 J          | 50  | 10   | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                  | 105             | 10  | 3.1  | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                  | 3680            | 200 | 53   | ug/l  | SW846 8260B |
| <b>FA47290-14 07960-MW-14</b>    |                  |                 |     |      |       |             |
| Benzene                          |                  | 0.78 J          | 1.0 | 0.31 | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                  | 35.8            | 20  | 5.3  | ug/l  | SW846 8260B |
| <b>FA47290-15 07960-MW-15</b>    |                  |                 |     |      |       |             |
| No hits reported in this sample. |                  |                 |     |      |       |             |
| <b>FA47290-16 07960-MW-16</b>    |                  |                 |     |      |       |             |
| Benzene                          |                  | 4.8             | 1.0 | 0.31 | ug/l  | SW846 8260B |
| Toluene                          |                  | 0.48 J          | 1.0 | 0.30 | ug/l  | SW846 8260B |
| Xylene (total)                   |                  | 2.8 J           | 3.0 | 0.72 | ug/l  | SW846 8260B |
| Naphthalene                      |                  | 6.3             | 5.0 | 1.0  | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                  | 37.4            | 20  | 5.3  | ug/l  | SW846 8260B |
| <b>FA47290-17 07960-MW-17</b>    |                  |                 |     |      |       |             |
| No hits reported in this sample. |                  |                 |     |      |       |             |
| <b>FA47290-18 07960-MW-18</b>    |                  |                 |     |      |       |             |
| No hits reported in this sample. |                  |                 |     |      |       |             |
| <b>FA47290-19 07960-MW-19</b>    |                  |                 |     |      |       |             |
| No hits reported in this sample. |                  |                 |     |      |       |             |
| <b>FA47290-20 07960-MW-20</b>    |                  |                 |     |      |       |             |
| No hits reported in this sample. |                  |                 |     |      |       |             |
| <b>FA47290-21 07960-MW-21</b>    |                  |                 |     |      |       |             |
| No hits reported in this sample. |                  |                 |     |      |       |             |



## Summary of Hits

**Job Number:** FA47290  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 08/29/17 thru 08/31/17

| Lab Sample ID<br>Analyte           | Client Sample ID | Result/<br>Qual | RL    | MDL    | Units | Method      |
|------------------------------------|------------------|-----------------|-------|--------|-------|-------------|
| <b>FA47290-22      07960-MW-22</b> |                  |                 |       |        |       |             |
| Benzene                            |                  | 8500            | 200   | 62     | ug/l  | SW846 8260B |
| Toluene                            |                  | 21500           | 1000  | 300    | ug/l  | SW846 8260B |
| Ethylbenzene                       |                  | 1620            | 200   | 71     | ug/l  | SW846 8260B |
| Xylene (total)                     |                  | 17200           | 600   | 140    | ug/l  | SW846 8260B |
| Naphthalene                        |                  | 947 J           | 1000  | 200    | ug/l  | SW846 8260B |
| 1,2-Dichloroethane                 |                  | 452             | 200   | 62     | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                  |                  | 6370            | 4000  | 1100   | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>     |                  | 18.8            | 0.39  | 0.19   | ug/l  | SW846 8011  |
| <b>FA47290-23      07960-MW-23</b> |                  |                 |       |        |       |             |
| 1,2-Dibromoethane <sup>a</sup>     |                  | 0.012 J         | 0.019 | 0.0096 | ug/l  | SW846 8011  |
| <b>FA47290-24      07960-MW-24</b> |                  |                 |       |        |       |             |
| No hits reported in this sample.   |                  |                 |       |        |       |             |
| <b>FA47290-25      07960-MW-25</b> |                  |                 |       |        |       |             |
| No hits reported in this sample.   |                  |                 |       |        |       |             |
| <b>FA47290-26      07960-MW-26</b> |                  |                 |       |        |       |             |
| No hits reported in this sample.   |                  |                 |       |        |       |             |
| <b>FA47290-27      07960-MW-27</b> |                  |                 |       |        |       |             |
| No hits reported in this sample.   |                  |                 |       |        |       |             |
| <b>FA47290-28      07960-MW-28</b> |                  |                 |       |        |       |             |
| No hits reported in this sample.   |                  |                 |       |        |       |             |
| <b>FA47290-29      07960-MW-29</b> |                  |                 |       |        |       |             |
| Benzene                            |                  | 4.8             | 1.0   | 0.31   | ug/l  | SW846 8260B |
| Ethylbenzene                       |                  | 0.48 J          | 1.0   | 0.36   | ug/l  | SW846 8260B |
| Methyl Tert Butyl Ether            |                  | 2.1             | 1.0   | 0.23   | ug/l  | SW846 8260B |
| 1,2-Dichloroethane                 |                  | 78.9            | 1.0   | 0.31   | ug/l  | SW846 8260B |
| Di-Isopropyl Ether                 |                  | 2.5 J           | 10    | 2.4    | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                  |                  | 4700            | 200   | 53     | ug/l  | SW846 8260B |
| Tert-Butyl Alcohol                 |                  | 388             | 20    | 5.3    | ug/l  | SW846 8260B |

## Summary of Hits

Job Number: FA47290  
Account: GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
Collected: 08/29/17 thru 08/31/17

| Lab Sample ID                        | Client Sample ID   | Result/<br>Analyte Qual | RL  | MDL  | Units | Method      |
|--------------------------------------|--------------------|-------------------------|-----|------|-------|-------------|
| <b>FA47290-30</b>                    | <b>07960-MW-30</b> |                         |     |      |       |             |
| Benzene                              |                    | 263                     | 5.0 | 1.6  | ug/l  | SW846 8260B |
| Toluene                              |                    | 5.3                     | 5.0 | 1.5  | ug/l  | SW846 8260B |
| Ethylbenzene                         |                    | 16.2                    | 5.0 | 1.8  | ug/l  | SW846 8260B |
| Xylene (total)                       |                    | 25.3                    | 15  | 3.6  | ug/l  | SW846 8260B |
| Naphthalene                          |                    | 14.5 J                  | 25  | 5.0  | ug/l  | SW846 8260B |
| 1,2-Dichloroethane                   |                    | 57.7                    | 5.0 | 1.6  | ug/l  | SW846 8260B |
| Di-Isopropyl Ether                   |                    | 4.0 J                   | 5.0 | 1.2  | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                    |                    | 2480                    | 100 | 26   | ug/l  | SW846 8260B |
| Tert-Butyl Alcohol                   |                    | 694                     | 100 | 27   | ug/l  | SW846 8260B |
| <b>FA47290-31</b>                    | <b>07960-MW-31</b> |                         |     |      |       |             |
| Benzene                              |                    | 120                     | 2.0 | 0.62 | ug/l  | SW846 8260B |
| Toluene                              |                    | 9.1                     | 2.0 | 0.60 | ug/l  | SW846 8260B |
| Ethylbenzene                         |                    | 22.7                    | 2.0 | 0.71 | ug/l  | SW846 8260B |
| Xylene (total)                       |                    | 45.6                    | 6.0 | 1.4  | ug/l  | SW846 8260B |
| Naphthalene                          |                    | 19.6                    | 10  | 2.0  | ug/l  | SW846 8260B |
| 1,2-Dichloroethane                   |                    | 38.3                    | 2.0 | 0.62 | ug/l  | SW846 8260B |
| Di-Isopropyl Ether                   |                    | 1.6 J                   | 2.0 | 0.48 | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                    |                    | 602                     | 40  | 11   | ug/l  | SW846 8260B |
| Tert-Butyl Alcohol                   |                    | 50.4                    | 40  | 11   | ug/l  | SW846 8260B |
| <b>FA47290-32</b>                    | <b>07960-TW-1</b>  |                         |     |      |       |             |
| Benzene                              |                    | 9.0                     | 1.0 | 0.31 | ug/l  | SW846 8260B |
| Toluene                              |                    | 0.51 J                  | 1.0 | 0.30 | ug/l  | SW846 8260B |
| Ethylbenzene                         |                    | 4.3                     | 1.0 | 0.36 | ug/l  | SW846 8260B |
| Xylene (total)                       |                    | 5.6                     | 3.0 | 0.72 | ug/l  | SW846 8260B |
| Methyl Tert Butyl Ether              |                    | 6.5                     | 1.0 | 0.23 | ug/l  | SW846 8260B |
| 1,2-Dichloroethane                   |                    | 65.7                    | 1.0 | 0.31 | ug/l  | SW846 8260B |
| Di-Isopropyl Ether                   |                    | 1.5 J                   | 5.0 | 1.2  | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                    |                    | 1080                    | 100 | 26   | ug/l  | SW846 8260B |
| Tert-Butyl Alcohol                   |                    | 67.8                    | 20  | 5.3  | ug/l  | SW846 8260B |
| <b>FA47290-33</b>                    | <b>07960-TW-2</b>  |                         |     |      |       |             |
| Benzene <sup>b</sup>                 |                    | 0.92 J                  | 1.0 | 0.31 | ug/l  | SW846 8260B |
| Toluene <sup>b</sup>                 |                    | 0.46 J                  | 1.0 | 0.30 | ug/l  | SW846 8260B |
| Ethylbenzene <sup>b</sup>            |                    | 0.52 J                  | 1.0 | 0.36 | ug/l  | SW846 8260B |
| Xylene (total) <sup>b</sup>          |                    | 1.9 J                   | 3.0 | 0.72 | ug/l  | SW846 8260B |
| Methyl Tert Butyl Ether <sup>b</sup> |                    | 0.40 J                  | 1.0 | 0.23 | ug/l  | SW846 8260B |
| 1,2-Dichloroethane <sup>b</sup>      |                    | 8.4                     | 1.0 | 0.31 | ug/l  | SW846 8260B |
| Di-Isopropyl Ether <sup>b</sup>      |                    | 0.58 J                  | 1.0 | 0.24 | ug/l  | SW846 8260B |

## Summary of Hits

**Job Number:** FA47290  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 08/29/17 thru 08/31/17

| Lab Sample ID                    | Client Sample ID   | Result/<br>Qual | RL    | MDL    | Units | Method      |
|----------------------------------|--------------------|-----------------|-------|--------|-------|-------------|
| Tert-Amyl Alcohol <sup>b</sup>   |                    | 321             | 20    | 5.3    | ug/l  | SW846 8260B |
| Tert-Butyl Alcohol <sup>b</sup>  |                    | 19.8 J          | 20    | 5.3    | ug/l  | SW846 8260B |
| <b>FA47290-34</b>                | <b>07960-TW-3</b>  |                 |       |        |       |             |
| No hits reported in this sample. |                    |                 |       |        |       |             |
| <b>FA47290-35</b>                | <b>07960-TW-4</b>  |                 |       |        |       |             |
| 1,2-Dichloroethane               |                    | 0.53 J          | 1.0   | 0.31   | ug/l  | SW846 8260B |
| <b>FA47290-36</b>                | <b>07960-TW-5</b>  |                 |       |        |       |             |
| No hits reported in this sample. |                    |                 |       |        |       |             |
| <b>FA47290-37</b>                | <b>07960-TW-6</b>  |                 |       |        |       |             |
| No hits reported in this sample. |                    |                 |       |        |       |             |
| <b>FA47290-38</b>                | <b>07960-TW-7</b>  |                 |       |        |       |             |
| No hits reported in this sample. |                    |                 |       |        |       |             |
| <b>FA47290-39</b>                | <b>07960-TW-8</b>  |                 |       |        |       |             |
| No hits reported in this sample. |                    |                 |       |        |       |             |
| <b>FA47290-40</b>                | <b>07960-TW-9</b>  |                 |       |        |       |             |
| No hits reported in this sample. |                    |                 |       |        |       |             |
| <b>FA47290-41</b>                | <b>07960-DUP-1</b> |                 |       |        |       |             |
| Benzene                          |                    | 7510            | 100   | 31     | ug/l  | SW846 8260B |
| Toluene                          |                    | 292             | 100   | 30     | ug/l  | SW846 8260B |
| Ethylbenzene                     |                    | 1090            | 100   | 36     | ug/l  | SW846 8260B |
| Xylene (total)                   |                    | 3550            | 300   | 72     | ug/l  | SW846 8260B |
| Naphthalene                      |                    | 415 J           | 500   | 100    | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                    | 523             | 100   | 31     | ug/l  | SW846 8260B |
| Di-Isopropyl Ether               |                    | 35.6 J          | 100   | 24     | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                    | 10800           | 2000  | 530    | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>   |                    | 0.21            | 0.019 | 0.0095 | ug/l  | SW846 8011  |

## Summary of Hits

**Job Number:** FA47290  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 08/29/17 thru 08/31/17

2

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA47290-42 07960-DUP-2**

|                    |  |        |     |     |      |             |
|--------------------|--|--------|-----|-----|------|-------------|
| Benzene            |  | 872    | 20  | 6.2 | ug/l | SW846 8260B |
| Toluene            |  | 15.7 J | 20  | 6.0 | ug/l | SW846 8260B |
| Ethylbenzene       |  | 72.5   | 20  | 7.1 | ug/l | SW846 8260B |
| Xylene (total)     |  | 154    | 60  | 14  | ug/l | SW846 8260B |
| Naphthalene        |  | 33.2 J | 100 | 20  | ug/l | SW846 8260B |
| 1,2-Dichloroethane |  | 112    | 20  | 6.2 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  |  | 3830   | 400 | 110 | ug/l | SW846 8260B |

**FA47290-43 07960-FIELD BLANK**

No hits reported in this sample.

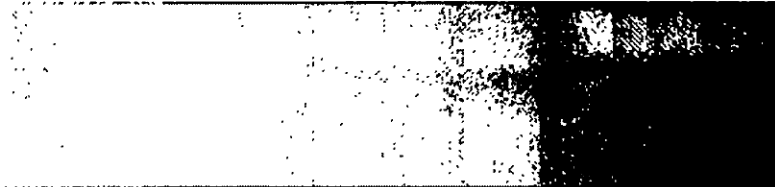
**FA47290-44 07960-TRIP BLANK**

No hits reported in this sample.

- (a) All hits confirmed by dual column analysis.
- (b) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

**SGS**

**ACCUTEST**  
Southeast



**Section 3**

**3**

**Sample Results**

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**Report of Analysis**

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**Report of Analysis**

3.1  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-1                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-1                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | P52665.D | 20  | 09/06/17 13:43 | SP | n/a       | n/a        | VP2000           |
| Run #2 | P52740.D | 100 | 09/08/17 11:07 | SP | n/a       | n/a        | VP2004           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result            | RL   | MDL  | Units | Q |
|-----------|----------------------------|-------------------|------|------|-------|---|
| 71-43-2   | Benzene                    | 1070              | 20   | 6.2  | ug/l  |   |
| 108-88-3  | Toluene                    | 343               | 20   | 6.0  | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 1740              | 20   | 7.1  | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 5890 <sup>a</sup> | 300  | 72   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND                | 20   | 4.6  | ug/l  |   |
| 91-20-3   | Naphthalene                | 796               | 100  | 20   | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 74.8              | 20   | 6.2  | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND                | 20   | 4.8  | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND                | 1000 | 200  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup> | ND                | 4000 | 1600 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND                | 40   | 4.7  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 2750              | 400  | 110  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND                | 40   | 4.9  | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND                | 400  | 110  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND                | 400  | 100  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 92%    | 96%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    | 90%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   | 106%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   | 102%   | 83-118% |

- (a) Result is from Run# 2
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.1  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-1                        |                                |
| <b>Lab Sample ID:</b> FA47290-1                            | <b>Date Sampled:</b> 08/31/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD95281.D | 20 | 09/06/17 13:58 | AN | 09/05/17 07:40 | OP66703    | GDD2781          |
| Run #2              |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.0 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result          | RL     | MDL     | Units | Q |
|----------|----------------------|-----------------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 1.9             | 0.39   | 0.19    | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1          | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 0% <sup>b</sup> |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.  
 (b) Outside control limits due to dilution.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-2                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-2                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52659.D | 1  | 09/06/17 11:16 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 1.7    | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 0.81   | 1.0 | 0.36 | ug/l  | J |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 10.9   | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 0.45   | 1.0 | 0.24 | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 86.8   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 429    | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 93%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 108%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-2                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-2                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95242.D | 1  | 09/05/17 20:27 | AN | 09/05/17 07:40 | OP66703    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.3 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 106%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-3                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-3                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | P52663.D | 100 | 09/06/17 12:54 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |     |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL    | MDL  | Units | Q |
|-----------|----------------------------|--------|-------|------|-------|---|
| 71-43-2   | Benzene                    | 5910   | 100   | 31   | ug/l  |   |
| 108-88-3  | Toluene                    | 206    | 100   | 30   | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 726    | 100   | 36   | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 2750   | 300   | 72   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 100   | 23   | ug/l  |   |
| 91-20-3   | Naphthalene                | 398    | 500   | 100  | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane         | 503    | 100   | 31   | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 30.0   | 100   | 24   | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 5000  | 1000 | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 20000 | 8200 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 200   | 24   | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 11700  | 2000  | 530  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 200   | 24   | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 2000  | 530  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 2000  | 500  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 93%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-3                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-3                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95243.D | 1  | 09/05/17 20:43 | AN | 09/05/17 07:40 | OP66703    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.18   | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 77%    |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.4  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-4                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-4                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52660.D | 1  | 09/06/17 11:41 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 0.53   | 1.0 | 0.31 | ug/l  | J |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 38.3   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.4  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-4                        |                                |
| <b>Lab Sample ID:</b> FA47290-4                            | <b>Date Sampled:</b> 08/31/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95244.D | 1  | 09/05/17 20:58 | AN | 09/05/17 07:40 | OP66703    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.1 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 96%    |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-5                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-5                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52661.D | 1  | 09/06/17 12:05 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 1.2    | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 30.7   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-5                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-5                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95245.D | 1  | 09/05/17 21:13 | AN | 09/05/17 07:40 | OP66703    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.020  | 0.0098  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 126%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.6  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-6                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-6                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52662.D | 1  | 09/06/17 12:29 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



### Report of Analysis

3.6  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-6                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-6                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95249.D | 1  | 09/05/17 22:14 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.020  | 0.0099  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 97%    |        | 63-137% |       |   |

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-7                        | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-7                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52664.D | 10 | 09/06/17 13:18 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL   | MDL | Units | Q |
|-----------|----------------------------|--------|------|-----|-------|---|
| 71-43-2   | Benzene                    | 555    | 10   | 3.1 | ug/l  |   |
| 108-88-3  | Toluene                    | 6.9    | 10   | 3.0 | ug/l  | J |
| 100-41-4  | Ethylbenzene               | 97.6   | 10   | 3.6 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 476    | 30   | 7.2 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 10   | 2.3 | ug/l  |   |
| 91-20-3   | Naphthalene                | 79.1   | 50   | 10  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 48.3   | 10   | 3.1 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 10   | 2.4 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 500  | 100 | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 2000 | 820 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 20   | 2.4 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 2230   | 200  | 53  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 20   | 2.4 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 200  | 53  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 200  | 50  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-7                        |                                |
| <b>Lab Sample ID:</b> FA47290-7                            | <b>Date Sampled:</b> 08/31/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD95250.D | 1  | 09/05/17 22:29 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2              |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.33   | 0.020  | 0.0099  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 99%    |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-8                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-8                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52668.D | 1  | 09/06/17 14:56 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-8                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-8                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95253.D | 1  | 09/05/17 23:14 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.7 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.020  | 0.0098  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 112%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.9  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-9                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-9                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52669.D | 1  | 09/06/17 15:21 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 105%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-9                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-9                            | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95255.D | 1  | 09/05/17 23:44 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 113%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-10                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-10                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52670.D | 1  | 09/06/17 15:45 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 105%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.10  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-10                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-10                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95257.D | 1  | 09/06/17 00:14 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.0 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 111%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.11  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-11                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-11                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52671.D | 1  | 09/06/17 16:09 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 1.6    | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 23.0   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.11  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-11                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-11                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95258.D | 1  | 09/06/17 00:30 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 107%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.12  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-12                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-12                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52666.D | 20 | 09/06/17 14:07 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL   | MDL  | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 71-43-2   | Benzene                    | 1350   | 20   | 6.2  | ug/l  |   |
| 108-88-3  | Toluene                    | 14.6   | 20   | 6.0  | ug/l  | J |
| 100-41-4  | Ethylbenzene               | 283    | 20   | 7.1  | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 64.7   | 60   | 14   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 20   | 4.6  | ug/l  |   |
| 91-20-3   | Naphthalene                | 23.0   | 100  | 20   | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane         | 188    | 20   | 6.2  | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 9.6    | 20   | 4.8  | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 1000 | 200  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 4000 | 1600 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 40   | 4.7  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 3970   | 400  | 110  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 40   | 4.9  | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 1930   | 400  | 110  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 400  | 100  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 107%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.12  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-12                       |                                |
| <b>Lab Sample ID:</b> FA47290-12                           | <b>Date Sampled:</b> 08/30/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD95259.D | 1  | 09/06/17 00:45 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2              |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.11   | 0.020  | 0.0098  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 108%   |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.13  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-13                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-13                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52667.D | 10 | 09/06/17 14:32 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL   | MDL | Units | Q |
|-----------|----------------------------|--------|------|-----|-------|---|
| 71-43-2   | Benzene                    | 852    | 10   | 3.1 | ug/l  |   |
| 108-88-3  | Toluene                    | 13.9   | 10   | 3.0 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 68.2   | 10   | 3.6 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 147    | 30   | 7.2 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 10   | 2.3 | ug/l  |   |
| 91-20-3   | Naphthalene                | 36.6   | 50   | 10  | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane         | 105    | 10   | 3.1 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 10   | 2.4 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 500  | 100 | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 2000 | 820 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 20   | 2.4 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 3680   | 200  | 53  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 20   | 2.4 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 200  | 53  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 200  | 50  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 109%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.13  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-13                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-13                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD95260.D | 1  | 09/06/17 01:00 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2              |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.020  | 0.0099  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 103%   |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-14                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-14                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52672.D | 1  | 09/06/17 16:34 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 0.78   | 1.0 | 0.31 | ug/l  | J |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 35.8   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 102%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

3.14  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-14                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-14                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95261.D | 1  | 09/06/17 01:15 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.1 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 109%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-15                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-15                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52673.D | 1  | 09/06/17 16:59 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.15  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-15                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-15                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95262.D | 1  | 09/06/17 01:30 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.0 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 112%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.16  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-16                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-16                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52674.D | 1  | 09/06/17 17:23 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 4.8    | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | 0.48   | 1.0 | 0.30 | ug/l  | J |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 2.8    | 3.0 | 0.72 | ug/l  | J |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | 6.3    | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 37.4   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-16                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-16                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95265.D | 1  | 09/06/17 02:15 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.1 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 107%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.17  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-17                       | <b>Date Sampled:</b> 08/29/17  |
| <b>Lab Sample ID:</b> FA47290-17                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52675.D | 1  | 09/06/17 17:48 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.17



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-17                       |                                |
| <b>Lab Sample ID:</b> FA47290-17                           | <b>Date Sampled:</b> 08/29/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95266.D | 1  | 09/06/17 02:30 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.3 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 107%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.18  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-18                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-18                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52676.D | 1  | 09/06/17 18:12 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound



### Report of Analysis

3.18  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-18                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-18                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95267.D | 1  | 09/06/17 02:46 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.1 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 109%   |        | 63-137% |       |   |

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.19



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-19                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-19                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52677.D | 1  | 09/06/17 18:36 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.19  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-19                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-19                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95268.D | 1  | 09/06/17 03:01 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.020  | 0.0099  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 94%    |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.20  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-20                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-20                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52678.D | 1  | 09/06/17 19:01 | SP | n/a       | n/a        | VP2000           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                    | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup> | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 108%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.20  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-20                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-20                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95269.D | 1  | 09/06/17 03:16 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.9 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 113%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.21  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-21                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-21                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3159.D | 1  | 09/06/17 22:19 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

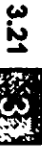
| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-21                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-21                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95270.D | 1  | 09/06/17 03:31 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 35.7 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.020  | 0.0098  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 112%   |        | 63-137% |       |   |

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-22                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-22                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|------|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3160.D | 200  | 09/06/17 22:43 | SP | n/a       | n/a        | V5E132           |
| Run #2 | P52743.D | 1000 | 09/08/17 12:19 | SP | n/a       | n/a        | VP2004           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                        | Result             | RL    | MDL   | Units | Q |
|-----------|---------------------------------|--------------------|-------|-------|-------|---|
| 71-43-2   | Benzene                         | 8500               | 200   | 62    | ug/l  |   |
| 108-88-3  | Toluene                         | 21500 <sup>a</sup> | 1000  | 300   | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 1620               | 200   | 71    | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 17200              | 600   | 140   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND                 | 200   | 46    | ug/l  |   |
| 91-20-3   | Naphthalene                     | 947                | 1000  | 200   | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane              | 452                | 200   | 62    | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>b</sup> | ND                 | 200   | 48    | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND                 | 10000 | 2000  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup>      | ND                 | 40000 | 16000 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND                 | 400   | 47    | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 6370               | 4000  | 1100  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND                 | 400   | 49    | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND                 | 4000  | 1100  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND                 | 4000  | 1000  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 98%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   | 90%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   | 104%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 110%   | 106%   | 83-118% |

(a) Result is from Run# 2

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

3.22  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-22                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-22                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD95282.D | 20 | 09/06/17 14:13 | AN | 09/05/17 15:00 | OP66704    | GDD2781          |
| Run #2              |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.0 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result          | RL     | MDL     | Units | Q |
|----------|----------------------|-----------------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 18.8            | 0.39   | 0.19    | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1          | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 0% <sup>b</sup> |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

(b) Outside control limits due to dilution.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.23  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-23                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-23                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3161.D | 1  | 09/06/17 23:07 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 113%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.23  
35

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-23                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-23                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD95272.D | 1  | 09/06/17 04:01 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2              |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.012  | 0.019  | 0.0096  | ug/l  | J |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 111%   |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.24

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-24                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-24                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3162.D | 1  | 09/06/17 23:31 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 113%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.24  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-24                       |                                |
| <b>Lab Sample ID:</b> FA47290-24                           | <b>Date Sampled:</b> 08/30/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95273.D | 1  | 09/06/17 04:16 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 107%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-25                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-25                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3163.D | 1  | 09/06/17 23:56 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.25  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-25                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-25                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95274.D | 1  | 09/06/17 04:31 | AN | 09/05/17 15:00 | OP66704    | GDD2780          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.3 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 95%    |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-26                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-26                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3164.D | 1  | 09/07/17 00:20 | SP | n/a       | n/a        | VSE132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

3.26  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-26                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-26                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95286.D | 1  | 09/06/17 15:13 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 114%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

3.27  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-27                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-27                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3165.D | 1  | 09/07/17 00:44 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.27  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-27                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-27                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95288.D | 1  | 09/06/17 15:44 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 110%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.28  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-28                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-28                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3166.D | 1  | 09/07/17 01:08 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.28  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-28                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-28                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95290.D | 1  | 09/06/17 16:14 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 102%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-29                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-29                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3167.D  | 1  | 09/07/17 01:33 | SP | n/a       | n/a        | VSE132           |
| Run #2 | B124456.D | 10 | 09/13/17 18:52 | AJ | n/a       | n/a        | VB5007           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result            | RL  | MDL  | Units | Q |
|-----------|----------------------------|-------------------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 4.8               | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | ND                | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 0.48              | 1.0 | 0.36 | ug/l  | J |
| 1330-20-7 | Xylene (total)             | ND                | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | 2.1               | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND                | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 78.9              | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 2.5 <sup>a</sup>  | 10  | 2.4  | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND                | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup> | ND                | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND                | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 4700 <sup>a</sup> | 200 | 53   | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND                | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 388               | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND                | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 98%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   | 104%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 109%   | 101%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 113%   | 104%   | 83-118% |

- (a) Result is from Run# 2
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.29  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-29                       | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-29                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95293.D | 1  | 09/06/17 16:59 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.7 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 109%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-30                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-30                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3168.D  | 5  | 09/07/17 01:57 | SP | n/a       | n/a        | V5E132           |
| Run #2 | B124457.D | 5  | 09/13/17 19:19 | AJ | n/a       | n/a        | VB5007           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result           | RL   | MDL | Units | Q |
|-----------|----------------------------|------------------|------|-----|-------|---|
| 71-43-2   | Benzene                    | 263              | 5.0  | 1.6 | ug/l  |   |
| 108-88-3  | Toluene                    | 5.3              | 5.0  | 1.5 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 16.2             | 5.0  | 1.8 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 25.3             | 15   | 3.6 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND               | 5.0  | 1.1 | ug/l  |   |
| 91-20-3   | Naphthalene                | 14.5             | 25   | 5.0 | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane         | 57.7             | 5.0  | 1.6 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 4.0 <sup>a</sup> | 5.0  | 1.2 | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND               | 250  | 50  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup> | ND               | 1000 | 410 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND               | 10   | 1.2 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 2480             | 100  | 26  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND               | 10   | 1.2 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 694              | 100  | 27  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND               | 100  | 25  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 99%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115%   | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   | 98%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112%   | 105%   | 83-118% |

(a) Result is from Run# 2

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.30  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-30                       |                                |
| <b>Lab Sample ID:</b> FA47290-30                           | <b>Date Sampled:</b> 08/30/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95294.D | 1  | 09/06/17 17:14 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 96%    |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-31                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-31                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3169.D  | 2  | 09/07/17 02:21 | SP | n/a       | n/a        | V5E132           |
| Run #2 | B124458.D | 2  | 09/13/17 19:46 | AJ | n/a       | n/a        | VB5007           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result           | RL  | MDL  | Units | Q |
|-----------|----------------------------|------------------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 120              | 2.0 | 0.62 | ug/l  |   |
| 108-88-3  | Toluene                    | 9.1              | 2.0 | 0.60 | ug/l  |   |
| 100-41-4  | Ethylbenzene               | 22.7             | 2.0 | 0.71 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 45.6             | 6.0 | 1.4  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND               | 2.0 | 0.46 | ug/l  |   |
| 91-20-3   | Naphthalene                | 19.6             | 10  | 2.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 38.3             | 2.0 | 0.62 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 1.6 <sup>a</sup> | 2.0 | 0.48 | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND               | 100 | 20   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup> | ND               | 400 | 160  | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND               | 4.0 | 0.47 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 602              | 40  | 11   | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND               | 4.0 | 0.49 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 50.4             | 40  | 11   | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND               | 40  | 10   | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    | 100%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   | 107%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   | 101%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   | 102%   | 83-118% |

(a) Result is from Run# 2

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.31  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-MW-31                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-31                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95295.D | 1  | 09/06/17 17:29 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 104%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-1                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-32                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3170.D  | 1  | 09/07/17 02:45 | SP | n/a       | n/a        | V5E132           |
| Run #2 | B124459.D | 5  | 09/13/17 20:13 | AJ | n/a       | n/a        | VB5007           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result            | RL  | MDL  | Units | Q |
|-----------|----------------------------|-------------------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 9.0               | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                    | 0.51              | 1.0 | 0.30 | ug/l  | J |
| 100-41-4  | Ethylbenzene               | 4.3               | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | 5.6               | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | 6.5               | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                | ND                | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 65.7              | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 1.5 <sup>a</sup>  | 5.0 | 1.2  | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND                | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup> | ND                | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND                | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 1080 <sup>a</sup> | 100 | 26   | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND                | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 67.8              | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate         | ND                | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    | 100%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   | 101%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   | 100%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112%   | 101%   | 83-118% |

(a) Result is from Run# 2

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

332  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-1                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-32                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95296.D | 1  | 09/06/17 17:44 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.9 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 106%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

3.33  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-2                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-33                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E3171.D  | 1  | 09/07/17 03:10 | SP | n/a       | n/a        | V5E132           |
| Run #2 <sup>a</sup> | B124460.D | 1  | 09/13/17 20:40 | AJ | n/a       | n/a        | VB5007           |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                   | Result            | RL  | MDL  | Units | Q |
|-----------|----------------------------|-------------------|-----|------|-------|---|
| 71-43-2   | Benzene                    | 0.92              | 1.0 | 0.31 | ug/l  | J |
| 108-88-3  | Toluene                    | 0.46              | 1.0 | 0.30 | ug/l  | J |
| 100-41-4  | Ethylbenzene               | 0.52              | 1.0 | 0.36 | ug/l  | J |
| 1330-20-7 | Xylene (total)             | 1.9               | 3.0 | 0.72 | ug/l  | J |
| 1634-04-4 | Methyl Tert Butyl Ether    | 0.40              | 1.0 | 0.23 | ug/l  | J |
| 91-20-3   | Naphthalene                | ND                | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane         | 8.4               | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether         | 0.58 <sup>b</sup> | 1.0 | 0.24 | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol     | ND                | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>c</sup> | ND                | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether     | ND                | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol          | 321               | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether     | ND                | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol         | 19.8              | 20  | 5.3  | ug/l  | J |
| 762-75-4  | Tert-Butyl Formate         | ND                | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    | 100%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   | 103%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   | 100%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112%   | 100%   | 83-118% |

- (a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.33  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-2                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-33                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95297.D | 1  | 09/06/17 18:00 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 98%    |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-3                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-34                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3172.D | 1  | 09/07/17 03:34 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 113%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.34  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-3                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-34                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95298.D | 1  | 09/06/17 18:15 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 101%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.35  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-4                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-35                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3173.D | 1  | 09/07/17 03:58 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 0.53   | 1.0 | 0.31 | ug/l  | J |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.35  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-4                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-35                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95299.D | 1  | 09/06/17 18:30 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.9 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL    | MDL    | Units | Q |
|----------|-------------------|--------|-------|--------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.019 | 0.0095 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 97%    |        | 63-137% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-5                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-36                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3174.D | 1  | 09/07/17 04:22 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.36  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-5                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-36                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95300.D | 1  | 09/06/17 18:45 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0097  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 93%    |        | 63-137% |       |   |

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-6                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-37                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3175.D | 1  | 09/07/17 04:47 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.37  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-6                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-37                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95301.D | 1  | 09/06/17 19:00 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.3 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL    | MDL    | Units | Q |
|----------|-------------------|--------|-------|--------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.019 | 0.0096 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 104%   |        | 63-137% |

**ND = Not detected**      **MDL = Method Detection Limit**      **J = Indicates an estimated value**  
**RL = Reporting Limit**      **B = Indicates analyte found in associated method blank**  
**E = Indicates value exceeds calibration range**      **N = Indicates presumptive evidence of a compound**

### Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-7                        | <b>Date Sampled:</b> 08/29/17  |
| <b>Lab Sample ID:</b> FA47290-38                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E3176.D | 1  | 09/07/17 05:11 | SP | n/a       | n/a        | VSE132           |
| Run #2              |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>b</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>b</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 88%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 114%   |        | 83-118% |

- (a) Sample was not preserved to a pH < 2.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



### Report of Analysis

3.38  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-7                        | <b>Date Sampled:</b> 08/29/17  |
| <b>Lab Sample ID:</b> FA47290-38                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95302.D | 1  | 09/06/17 19:15 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL    | MDL    | Units | Q |
|----------|-------------------|--------|-------|--------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.019 | 0.0096 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 108%   |        | 63-137% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-8                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-39                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3177.D | 1  | 09/07/17 05:36 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether <sup>a</sup> | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol <sup>a</sup>      | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate              | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 113%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.39  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-8                        |                                |
| <b>Lab Sample ID:</b> FA47290-39                           | <b>Date Sampled:</b> 08/30/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95305.D | 1  | 09/06/17 20:01 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL    | MDL    | Units | Q |
|----------|-------------------|--------|-------|--------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.019 | 0.0095 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 109%   |        | 63-137% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.40



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-9                        | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-40                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E3178.D | 1  | 09/07/17 06:00 | SP | n/a       | n/a        | V5E132           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether *    | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol *         | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 111%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.40

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TW-9                        |                                |
| <b>Lab Sample ID:</b> FA47290-40                           | <b>Date Sampled:</b> 08/30/17  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95306.D | 1  | 09/06/17 20:16 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 105%   |        | 63-137% |       |   |

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-DUP-1                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-41                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | P52692.D | 100 | 09/07/17 00:44 | SP | n/a       | n/a        | VP2002           |
| Run #2 |          |     |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                | Result | RL    | MDL  | Units | Q |
|-----------|-------------------------|--------|-------|------|-------|---|
| 71-43-2   | Benzene                 | 7510   | 100   | 31   | ug/l  |   |
| 108-88-3  | Toluene                 | 292    | 100   | 30   | ug/l  |   |
| 100-41-4  | Ethylbenzene            | 1090   | 100   | 36   | ug/l  |   |
| 1330-20-7 | Xylene (total)          | 3550   | 300   | 72   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 100   | 23   | ug/l  |   |
| 91-20-3   | Naphthalene             | 415    | 500   | 100  | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane      | 523    | 100   | 31   | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | 35.6   | 100   | 24   | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 5000  | 1000 | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 20000 | 8200 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 200   | 24   | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | 10800  | 2000  | 530  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 200   | 24   | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 2000  | 530  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 2000  | 500  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

A

**Report of Analysis**

3.41  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-DUP-1                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-4V                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95307.D | 1  | 09/06/17 20:31 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.0 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL    | MDL    | Units | Q |
|----------|-------------------|--------|-------|--------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | 0.21   | 0.019 | 0.0095 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 79%    |        | 63-137% |

(a) All hits confirmed by dual column analysis.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.42  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-DUP-2 <b>B</b>              | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-42                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52693.D | 20 | 09/07/17 01:09 | SP | n/a       | n/a        | VP2002           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 mi       |
| Run #2 |              |

Purgeable Aromatics, MTBE, Naphthalene

| CAS No.   | Compound                | Result | RL   | MDL  | Units | Q |
|-----------|-------------------------|--------|------|------|-------|---|
| 71-43-2   | Benzene                 | 872    | 20   | 6.2  | ug/l  |   |
| 108-88-3  | Toluene                 | 15.7   | 20   | 6.0  | ug/l  | J |
| 100-41-4  | Ethylbenzene            | 72.5   | 20   | 7.1  | ug/l  |   |
| 1330-20-7 | Xylene (total)          | 154    | 60   | 14   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 20   | 4.6  | ug/l  |   |
| 91-20-3   | Naphthalene             | 33.2   | 100  | 20   | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane      | 112    | 20   | 6.2  | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 20   | 4.8  | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 1000 | 200  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 4000 | 1600 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 40   | 4.7  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | 3830   | 400  | 110  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 40   | 4.9  | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 400  | 110  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 400  | 100  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 92%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 107%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 105%   |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

3.42  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-DUP-2                       | <b>Date Sampled:</b> 08/30/17  |
| <b>Lab Sample ID:</b> FA47290-42                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95308.D | 1  | 09/06/17 20:46 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.7 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL    | MDL    | Units | Q |
|----------|-------------------|--------|-------|--------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.019 | 0.0095 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 100%   |        | 63-137% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.43  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-FIELD BLANK                 |                                |
| <b>Lab Sample ID:</b> FA47290-43                           | <b>Date Sampled:</b> 08/31/17  |
| <b>Matrix:</b> AQ - Field Blank Water                      | <b>Date Received:</b> 09/01/17 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52694.D | 1  | 09/07/17 01:33 | SP | n/a       | n/a        | VP2002           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 109%   |        | 83-118% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.43  


|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-FIELD BLANK                 | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-43                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Field Blank Water                      | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD95309.D | 1  | 09/06/17 21:01 | AN | 09/06/17 13:00 | OP66724    | GDD2781          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 36.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0096  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 110%   |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.44  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TRIP BLANK                  | <b>Date Sampled:</b> 08/31/17  |
| <b>Lab Sample ID:</b> FA47290-44                           | <b>Date Received:</b> 09/01/17 |
| <b>Matrix:</b> AQ - Trip Blank Water                       | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P52695.D | 1  | 09/07/17 01:58 | SP | n/a       | n/a        | VP2002           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 107%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 105%   |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Subcontract Lab Data**

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**Report of Analysis**

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# SHEALY ENVIRONMENTAL SERVICES, INC.

## Report of Analysis

**Accutest**  
4405 Vineland Rd  
Suite C-15  
Orlando, FL 32811  
Attention: Muna Mohammed

4

Project Name: FA47290X

Lot Number:SI06031

Date Completed:09/14/2017



09/19/2017 4:11 PM  
Approved and released by:  
Project Manager: Lucas Odom



The electronic signature above is the equivalent of a handwritten signature.  
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Shealy Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-8700 Fax (803) 791-8111 www.shealylab.com

# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87853

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Accutest Lot Number: SI06031

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Accutest Lot Number: SI06031

| Sample Number | Sample ID            | Matrix  | Date Sampled    | Date Received |
|---------------|----------------------|---------|-----------------|---------------|
| 001           | 07960-WSW-1 (PRE)    | Aqueous | 08/31/2017 1014 | 09/06/2017    |
| 002           | 07960-WSW-1 (POST)   | Aqueous | 08/31/2017 1017 | 09/06/2017    |
| 003           | 07960-DUP-C          | Aqueous | 08/31/2017 1202 | 09/06/2017    |
| 004           | 07960-WSW-2          | Aqueous | 08/31/2017 1230 | 09/06/2017    |
| 005           | 07960-WSW-3          | Aqueous | 08/31/2017 1249 | 09/06/2017    |
| 006           | 07960-WSW-4          | Aqueous | 08/31/2017 1311 | 09/06/2017    |
| 007           | 07960-WSW-5          | Aqueous | 08/31/2017 1256 | 09/06/2017    |
| 008           | 07960-WSW-14         | Aqueous | 08/31/2017 1140 | 09/06/2017    |
| 009           | 07960-WSW-7          | Aqueous | 08/31/2017 1031 | 09/06/2017    |
| 010           | 07960-WSW-8 (PRE)    | Aqueous | 08/31/2017 1047 | 09/06/2017    |
| 011           | 07960-WSW-8 (POST)   | Aqueous | 08/31/2017 1051 | 09/06/2017    |
| 012           | 07960-WSW-9          | Aqueous | 08/31/2017 1101 | 09/06/2017    |
| 013           | 07960-WSW-10         | Aqueous | 08/31/2017 1111 | 09/06/2017    |
| 014           | 07960-WSW-11         | Aqueous | 08/31/2017 1123 | 09/06/2017    |
| 015           | 07960-WSW-12         | Aqueous | 08/31/2017 1132 | 09/06/2017    |
| 016           | 07960-WSW-13         | Aqueous | 08/31/2017 1201 | 09/06/2017    |
| 017           | 07960-WSW-15         | Aqueous | 08/31/2017 1151 | 09/06/2017    |
| 018           | 07960-WSW-X          | Aqueous | 08/31/2017 1403 | 09/06/2017    |
| 019           | 07960-WSW-FB         | Aqueous | 08/31/2017 1343 | 09/06/2017    |
| 020           | 07960-WSW-TRIP BLANK | Aqueous | 08/31/2017 0701 | 09/06/2017    |

(20 samples)



# SHEALY ENVIRONMENTAL SERVICES, INC.

## Detection Summary

### Accutest

Lot Number: SI06031

| Sample | Sample ID          | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|--------------------|---------|-----------------------------|--------|--------|---|-------|------|
| 001    | 07960-WSW-1 (PRE)  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 160    |   | ug/L  | 5    |
| 001    | 07960-WSW-1 (PRE)  | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 37     |   | ug/L  | 5    |
| 001    | 07960-WSW-1 (PRE)  | Aqueous | 1,2-Dichloroethane          | 524.2  | 4.8    |   | ug/L  | 5    |
| 002    | 07960-WSW-1 (POST) | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 110    |   | ug/L  | 7    |
| 002    | 07960-WSW-1 (POST) | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 41     |   | ug/L  | 7    |
| 002    | 07960-WSW-1 (POST) | Aqueous | 1,2-Dichloroethane          | 524.2  | 1.4    |   | ug/L  | 7    |
| 003    | 07960-DUP-C        | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 160    |   | ug/L  | 9    |
| 003    | 07960-DUP-C        | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 38     |   | ug/L  | 9    |
| 003    | 07960-DUP-C        | Aqueous | 1,2-Dichloroethane          | 524.2  | 4.7    |   | ug/L  | 9    |
| 005    | 07960-WSW-3        | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 39     |   | ug/L  | 13   |
| 005    | 07960-WSW-3        | Aqueous | Benzene                     | 524.2  | 2.3    |   | ug/L  | 13   |
| 008    | 07960-WSW-14       | Aqueous | Methyl tertiary butyl ether | 524.2  | 0.91   |   | ug/L  | 19   |
| 010    | 07960-WSW-8 (PRE)  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 38     |   | ug/L  | 23   |
| 010    | 07960-WSW-8 (PRE)  | Aqueous | 1,2-Dichloroethane          | 524.2  | 2.1    |   | ug/L  | 23   |
| 011    | 07960-WSW-8 (POST) | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 8.5    | J | ug/L  | 25   |
| 011    | 07960-WSW-8 (POST) | Aqueous | 1,2-Dichloroethane          | 524.2  | 0.43   | J | ug/L  | 25   |
| 012    | 07960-WSW-9        | Aqueous | Ethylbenzene                | 524.2  | 0.43   | J | ug/L  | 27   |
| 012    | 07960-WSW-9        | Aqueous | Xylenes (total)             | 524.2  | 2.2    |   | ug/L  | 27   |
| 013    | 07960-WSW-10       | Aqueous | 1,2-Dichloroethane          | 524.2  | 0.41   | J | ug/L  | 29   |
| 014    | 07960-WSW-11       | Aqueous | 1,2-Dichloroethane          | 524.2  | 0.33   | J | ug/L  | 31   |
| 015    | 07960-WSW-12       | Aqueous | 1,2-Dichloroethane          | 524.2  | 0.64   |   | ug/L  | 33   |

(21 detections)

4

|                                |                            |
|--------------------------------|----------------------------|
| Client: Accutest               | Laboratory ID: S106031-001 |
| Description: 07960-WSW-1 (PRE) | Matrix: Aqueous            |
| Date Sampled: 09/31/2017 1014  |                            |
| Date Received: 09/06/2017      |                            |

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1023 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | 160               |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | 37                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 102               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 104               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 102               | 70-130            |                 |         |           |       |     |  |

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### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1001 | TML     |           | 51162 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | 4.8               |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 81                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 87                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1557 | DAL1    | 09/12/2017 0929 | 51148 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| Client: Accutest<br>Description: 07960-WSW-1 (PRE)<br>Date Sampled: 06/31/2017 1014<br>Date Received: 06/06/2017 | Laboratory ID: S106031-001<br>Matrix: Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1.1.1.2-Tetrachloroethane |   | 89                  | 67-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                                 |                            |
|---------------------------------|----------------------------|
| Client: Accutest                | Laboratory ID: S106031-002 |
| Description: 07960-WSW-1 (POST) | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1017   |                            |
| Date Received: 09/06/2017       |                            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1045 | BWS     |           | 50839 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-85-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | 110    |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 984-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | 41     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 101              | 70-130            |
| Bromofluorobenzene    |   | 107              | 70-130            |
| Toluene-d8            |   | 104              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 524.2       | 524.2             | 1        | 09/12/2017 1026 | TML     |           | 51162 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | 1.4    |   | 0.50 | 0.20 | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |

| Surrogate              | Q | Run 1 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 77               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 80               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 1609 | DAL1    | 09/12/2017 0929 | 51148 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0080 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-1 (POST)<br><b>Date Sampled:</b> 08/31/2017 1017<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-002<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 88                  | 57-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1107 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | 160               |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | 38                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 100               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 105               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 104               | 70-130            |                 |         |           |       |     |  |

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1050 | TML     |           | 51162 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | 4.7               |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 81                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 91                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1621 | DAL1    | 09/12/2017 0929 | 51148 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-DUP-C<br><b>Date Sampled:</b> 08/31/2017 1202<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-003<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 94                  | 57-137               |

4

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-2<br><b>Date Sampled:</b> 08/31/2017 1230<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> SI08031-004<br><b>Matrix:</b> Aqueous |
|--|---|

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1129 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 101               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 98                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 100               | 70-130            |                 |         |           |       |     |  |

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1115 | TML     |           | 51162 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 75                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 82                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1633 | DAL1    | 09/12/2017 0929 | 51148 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client: Accutest</b><br><b>Description: 07960-WSW-2</b><br><b>Date Sampled: 08/31/2017 1230</b><br><b>Date Received: 09/06/2017</b> | <b>Laboratory ID: S106031-004</b><br><b>Matrix: Aqueous</b> |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 90                  | 57-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: S106031-005 |
| Description: 07960-WSW-3      | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1240 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1151 | BWS     |           | 50839 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | 39     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 782-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q   | Run 1 % Recovery | Acceptance Limits |
|-----------------------|-----|------------------|-------------------|
| 1,2-Dichloroethane-d4 | 98  |                  | 70-130            |
| Bromofluorobenzene    | 102 |                  | 70-130            |
| Toluene-d8            | 98  |                  | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 524.2       | 524.2             | 1        | 09/12/2017 1140 | TML     |           | 51162 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | 2.3    |   | 0.50 | 0.20 | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 1   |

| Surrogate              | Q  | Run 1 % Recovery | Acceptance Limits |
|------------------------|----|------------------|-------------------|
| Bromofluorobenzene     | 82 |                  | 70-130            |
| 1,2-Dichlorobenzene-d4 | 98 |                  | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 1646 | DAL1    | 09/12/2017 0929 | 51148 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.021 | 0.0082 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-3<br><b>Date Sampled:</b> 08/31/2017 1249<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> SI06031-005<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 98                  | 57-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-4<br><b>Date Sampled:</b> 08/31/2017 1311<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-006<br><b>Matrix:</b> Aqueous |
|--|---|

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1213 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 837-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 100               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 108               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 104               | 70-130            |                 |         |           |       |     |  |

4

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1205 | TML     |           | 51182 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 74                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 91                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1734 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-4<br><b>Date Sampled:</b> 08/31/2017 1311<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-006<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 89                  | 57-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: S106031-007 |
| Description: 07960-WSW-5      | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1256 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1235 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 101               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 103               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 101               | 70-130            |                 |         |           |       |     |  |

4

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1229 | TML     |           | 51162 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 77                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 88                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1811 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-5<br><b>Date Sampled:</b> 08/31/2017 1256<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-007<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 90                  | 57-137               |

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LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: S106031-008 |
| Description: 07960-WSW-14     | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1140 |                            |
| Date Received: 09/06/2017     |                            |

### Volatle Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1257 | BWS     |           | 50639 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 103               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 104               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 103               | 70-130            |                 |         |           |       |     |  |

### Volatle Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1254 | TML     |           | 51162 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | 0.91              |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 83                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 90                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1823 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-14<br><b>Date Sampled:</b> 08/31/2017 1140<br><b>Date Received:</b> 08/06/2017 | <b>Laboratory ID:</b> S106031-008<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 87                  | 57-137               |

4

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: SI06031-009 |
| Description: 07960-WSW-7      | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1031 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1320 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 101               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 103               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 103               | 70-130            |                 |         |           |       |     |  |

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 524.2       | 524.2             | 1                 | 09/12/2017 1319 | TML     |           | 51162 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 74                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 81                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1835 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-7<br><b>Date Sampled:</b> 08/31/2017 1031<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-009<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 90                  | 57-137               |

4

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                                |                            |
|--------------------------------|----------------------------|
| Client: Accutest               | Laboratory ID: SI06031-010 |
| Description: 07960-WSW-6 (PRE) | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1047  |                            |
| Date Received: 09/06/2017      |                            |

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1342 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | 38                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 104               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 97                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 102               | 70-130            |                 |         |           |       |     |  |

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 2                                  | 524.2       | 524.2             | 1                 | 09/13/2017 1931 | BWS     |           | 51335 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | 2.1               |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Surrogate                          | Q           | Run 2 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 98                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 90                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1847 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0080          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07966-WSW-8 (PRE)<br><b>Date Sampled:</b> 08/31/2017 1047<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-010<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 90                  | 57-137               |

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|                                      |                                  |   |                                     |
|--------------------------------------|----------------------------------|---|-------------------------------------|
| LOQ = Limit of Quantitation          | S = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit                |
| ND = Not detected at or above the DL | N = Recovery is out of criteria  | P = The RPD between two GC columns exceeds 40%              | J = Estimated result < LOQ and ≥ DL |
| H = Out of holding time              | W = Reported on wet weight basis |   |                                     |

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|                                 |                            |
|---------------------------------|----------------------------|
| Client: Accutest                | Laboratory ID: S106031-011 |
| Description: 07960-WSW-8 (POST) | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1051   |                            |
| Date Received: 09/06/2017       |                            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1404 | BWS     |           | 50839 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | 8.5    | J | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 782-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 99               | 70-130            |
| Bromofluorobenzene    |   | 98               | 70-130            |
| Toluene-d8            |   | 101              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/13/2017 1956 | BWS     |           | 51335 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | 0.43   | J | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogate              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 100              | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 94               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 1859 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0079 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-8 (POST)<br><b>Date Sampled:</b> 06/31/2017 1051<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-011<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 87                  | 57-137               |

4

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| Client: Accutest<br>Description: 07980-WSW-0<br>Date Sampled: 08/31/2017 1101<br>Date Received: 09/06/2017 | Laboratory ID: S106031-012<br>Matrix: Aqueous |
|--|---|

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1426 | BWS     |           | 50839 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 99                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 109               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 104               | 70-130            |                 |         |           |       |     |  |

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### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 2                                  | 524.2       | 524.2             | 1                 | 09/13/2017 2021 | BWS     |           | 51335 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | 0.43              | J               | 0.50    | 0.20      | ug/L  | 2   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | 2.2               |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Surrogate                          | Q           | Run 2 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 95                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 1912 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0081          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-9<br><b>Date Sampled:</b> 08/31/2017 1101<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-012<br><b>Matrix:</b> Aqueous |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 88                  | 57-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-10<br><b>Date Sampled:</b> 08/31/2017 1111<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-013<br><b>Matrix:</b> Aqueous |
|---|---|

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1448 | BWS     |           | 50639 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 103              | 70-130            |
| Bromofluorobenzene    |   | 100              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/13/2017 2045 | BWS     |           | 51335 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | 0.41   | J | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogate              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 98               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 99               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 1924 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0081 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-10<br><b>Date Sampled:</b> 06/31/2017 1111<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-013<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 90                  | 57-137               |

4

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1510 | BWS     |           | 50839 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 101              | 70-130            |
| Bromofluorobenzene    |   | 103              | 70-130            |
| Toluene-d8            |   | 104              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/13/2017 2110 | BWS     |           | 51335 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | 0.33   | J | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogate              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 94               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 94               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 1936 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0080 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-11<br><b>Date Sampled:</b> 08/31/2017 1123<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-014<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 85                  | 57-137               |

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LOQ = Limit of Quantitation      S = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: S106031-015 |
| Description: 07960-WSW-12     | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1132 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1532 | BWS     |           | 50639 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 99               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/13/2017 2134 | BWS     |           | 51335 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | 0.64   |   | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogate              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 92               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 95               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 1948 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0082 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07860-WSW-12<br><b>Date Sampled:</b> 08/31/2017 1132<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> SI06031-015<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 87                  | 57-137               |

4

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: SI06031-016 |
| Description: 07960-WSW-13     | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1201 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/07/2017 1554 | BWS     |           | 50639 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 104               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 105               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 106               | 70-130            |                 |         |           |       |     |  |

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 2                                  | 524.2       | 524.2             | 1                 | 09/13/2017 2158 | BWS     |           | 51335 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Surrogate                          | Q           | Run 2 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 92                | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 80                | 70-130            |                 |         |           |       |     |  |

### EDB & DBCP by Microextraction

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 504.1       | 504.1             | 1        | 09/12/2017 2012 | DAL1    | 09/12/2017 0929 | 51149 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB) | 106-93-4    | 504.1             | ND       |                 | 0.020   | 0.0060          | ug/L  | 1   |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07960-WSW-13<br><b>Date Sampled:</b> 06/31/2017 1201<br><b>Date Received:</b> 09/06/2017 | <b>Laboratory ID:</b> S106031-016<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 87                  | 57-137               |

4

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: SI06031-017 |
| Description: 07960-WSW-15     | Matrix: Aqueous            |
| Date Sampled: 08/31/2017 1151 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1616 | BWS     |           | 50639 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogats             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 103              | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 105              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/13/2017 2223 | BWS     |           | 51335 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogats              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 96               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 91               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 2024 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0080 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|   |   |
|---|---|
| Client: Accutest<br>Description: 07960-WSW-15<br>Date Sampled: 06/31/2017 1151<br>Date Received: 09/06/2017 | Laboratory ID: 8106031-017<br>Matrix: Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 83                  | 57-137               |

4

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|  |   |
|--|---|
| Client: Accutest<br>Description: 07960-WSW-X<br>Date Sampled: 08/31/2017 1403<br>Date Received: 09/06/2017 | Laboratory ID: S106031-018<br>Matrix: Aqueous |
|--|---|

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/07/2017 1637 | BWS     |           | 50839 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 101              | 70-130            |
| Bromofluorobenzene    |   | 99               | 70-130            |
| Toluene-d8            |   | 100              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/13/2017 2248 | BWS     |           | 51335 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogate              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 96               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 87               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 2037 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0079 | ug/L  | 1   |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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|  |   |
|--|---|
| <b>Client: Accutest</b><br><b>Description: 07960-WSW-X</b><br><b>Date Sampled: 06/31/2017 1403</b><br><b>Date Received: 09/06/2017</b> | <b>Laboratory ID: S106031-018</b><br><b>Matrix: Aqueous</b> |
|--|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 88                  | 57-137               |

4

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                               |                            |
|-------------------------------|----------------------------|
| Client: Accutest              | Laboratory ID: SI06031-019 |
| Description: 07960-WSW-FB     | Matrix: Aqueous            |
| Date Sampled: 09/31/2017 1343 |                            |
| Date Received: 09/06/2017     |                            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/06/2017 2203 | ECP     |           | 50798 |

| Parameter                     | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|-------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Diisopropyl ether (IPE)       | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethanol                       | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol        | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Amyl alcohol (TAA)       | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME) | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| tert-butyl alcohol (TBA)      | 75-85-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)      | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 96               | 70-130            |
| Bromofluorobenzene    |   | 96               | 70-130            |
| Toluene-d8            |   | 107              | 70-130            |

### Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 524.2       | 524.2             | 1        | 09/14/2017 1249 | TML     |           | 51410 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Benzene                            | 71-43-2    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 524.2             | ND     |   | 0.50 | 0.20 | ug/L  | 2   |

| Surrogate              | Q | Run 2 % Recovery | Acceptance Limits |
|------------------------|---|------------------|-------------------|
| Bromofluorobenzene     |   | 93               | 70-130            |
| 1,2-Dichlorobenzene-d4 |   | 90               | 70-130            |

### EDB & DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 504.1       | 504.1             | 1        | 09/12/2017 2049 | DAL1    | 09/12/2017 0929 | 51149 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 504.1             | ND     |   | 0.020 | 0.0080 | ug/L  | 1   |

LOQ = Limit of Quantitation      S = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|   |   |
|---|---|
| <b>Client:</b> Accutest<br><b>Description:</b> 07966-WSW-FB<br><b>Date Sampled:</b> 06/31/2017 1343<br><b>Date Received:</b> 06/06/2017 | <b>Laboratory ID:</b> S106031-019<br><b>Matrix:</b> Aqueous |
|---|---|

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 82                  | 57-137               |

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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|                                   |                            |
|-----------------------------------|----------------------------|
| Client: Accutest                  | Laboratory ID: S106031-020 |
| Description: 07960-WSW-TRIP BLANK | Matrix: Aqueous            |
| Date Sampled: 09/31/2017 0701     |                            |
| Date Received: 09/06/2017         |                            |

### Volatile Organic Compounds by GC/MS

| Run                           | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|-------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                             | 5030B       | 8260B             | 1                 | 09/06/2017 2136 | ECP     |           | 50797 |     |  |
| Parameter                     | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Diisopropyl ether (IPE)       | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethanol                       | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol        | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Amyl alcohol (TAA)       | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME) | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)      | 75-85-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)      | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                     | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4         |             | 103               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene            |             | 99                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                    |             | 102               | 70-130            |                 |         |           |       |     |  |

### Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 2                                  | 524.2       | 524.2             | 1                 | 09/14/2017 1313 | TML     |           | 51410 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| Benzene                            | 71-43-2     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Ethylbenzene                       | 100-41-4    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Naphthalene                        | 91-20-3     | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Toluene                            | 108-88-3    | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Xylenes (total)                    | 1330-20-7   | 524.2             | ND                |                 | 0.50    | 0.20      | ug/L  | 2   |  |
| Surrogate                          | Q           | Run 2 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 109               | 70-130            |                 |         |           |       |     |  |
| 1,2-Dichlorobenzene-d4             |             | 94                | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ50797-001

Matrix: Aqueous

Batch: 50797

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                     | Result | Q     | DII              | LOQ | DL   | Units | Analysis Date   |
|-------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Diisopropyl ether (IPE)       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/06/2017 2052 |
| Ethanol                       | ND     |       | 1                | 100 | 40   | ug/L  | 09/06/2017 2052 |
| 3,3-Dimethyl-1-butanol        | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/06/2017 2052 |
| Ethyl-tert-butyl ether (ETBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/06/2017 2052 |
| tert-Amyl alcohol (TAA)       | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/06/2017 2052 |
| tert-Amyl methyl ether (TAME) | ND     |       | 1                | 10  | 0.42 | ug/L  | 09/06/2017 2052 |
| tert-butyl alcohol (TBA)      | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/06/2017 2052 |
| tert-Butyl formate (TBF)      | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 09/06/2017 2052 |
| Surrogate                     | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4         |        | 100   | 70-130           |     |      |       |                 |
| Bromofluorobenzene            |        | 105   | 70-130           |     |      |       |                 |
| Toluene-d8                    |        | 104   | 70-130           |     |      |       |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ50797-002

Matrix: Aqueous

Batch: 50797

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                     | Spike Amount (ug/L) | Result (ug/L) | Q                       | DI | % Rec | % Rec Limit | Analysis Date   |
|-------------------------------|---------------------|---------------|-------------------------|----|-------|-------------|-----------------|
| Diisopropyl ether (IPE)       | 50                  | 56            | 1                       |    | 112   | 70-130      | 09/06/2017 1953 |
| Ethanol                       | 5000                | 5300          | 1                       |    | 106   | 60-140      | 09/06/2017 1953 |
| 3,3-Dimethyl-1-butanol        | 1000                | 930           | 1                       |    | 93    | 60-140      | 09/06/2017 1953 |
| Ethyl-tert-butyl ether (ETBE) | 50                  | 58            | 1                       |    | 116   | 70-130      | 09/06/2017 1953 |
| tert-Amyl alcohol (TAA)       | 1000                | 1000          | 1                       |    | 101   | 70-130      | 09/06/2017 1953 |
| tert-Amyl methyl ether (TAME) | 50                  | 52            | 1                       |    | 104   | 70-130      | 09/06/2017 1953 |
| tert-butyl alcohol (TBA)      | 1000                | 1100          | 1                       |    | 111   | 70-130      | 09/06/2017 1953 |
| tert-Butyl formate (TBF)      | 250                 | 280           | 1                       |    | 111   | 70-130      | 09/06/2017 1953 |
| <b>Surrogate</b>              | <b>Q</b>            | <b>% Rec</b>  | <b>Acceptance Limit</b> |    |       |             |                 |
| 1,2-Dichloroethane-d4         |                     | 97            | 70-130                  |    |       |             |                 |
| Bromofluorobenzene            |                     | 99            | 70-130                  |    |       |             |                 |
| Toluene-d8                    |                     | 95            | 70-130                  |    |       |             |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ50798-001

Matrix: Aqueous

Batch: 50798

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                     | Result | Q     | DN               | LOQ | DL   | Units | Analysis Date   |
|-------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Diisopropyl ether (IPE)       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/06/2017 2117 |
| Ethanol                       | ND     |       | 1                | 100 | 40   | ug/L  | 09/06/2017 2117 |
| 3,3-Dimethyl-1-butanol        | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/06/2017 2117 |
| Ethyl-tert-butyl ether (ETBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/06/2017 2117 |
| tert-Amyl alcohol (TAA)       | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/06/2017 2117 |
| tert-Amyl methyl ether (TAME) | ND     |       | 1                | 10  | 0.42 | ug/L  | 09/06/2017 2117 |
| tert-butyl alcohol (TBA)      | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/06/2017 2117 |
| tert-Butyl formate (TBF)      | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 09/06/2017 2117 |
| Surrogate                     | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4         |        | 98    | 70-130           |     |      |       |                 |
| Bromofluorobenzene            |        | 96    | 70-130           |     |      |       |                 |
| Toluene-d8                    |        | 106   | 70-130           |     |      |       |                 |



LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ50798-002

Matrix: Aqueous

Batch: 50798

Prep Method: 5030B

Analytical Method: 8280B

| Parameter                     | Spike Amount (ug/L) | Result (ug/L) | Q                | DI | % Rec | % Rec Limit | Analysis Date   |
|-------------------------------|---------------------|---------------|------------------|----|-------|-------------|-----------------|
| Diiisopropyl ether (IPE)      | 50                  | 55            |                  | 1  | 109   | 70-130      | 09/06/2017 2013 |
| Ethanol                       | 5000                | 5200          |                  | 1  | 103   | 60-140      | 09/06/2017 2013 |
| 3,3-Dimethyl-1-butanol        | 1000                | 880           |                  | 1  | 88    | 60-140      | 09/06/2017 2013 |
| Ethyl-tert-butyl ether (ETBE) | 50                  | 56            |                  | 1  | 111   | 70-130      | 09/06/2017 2013 |
| tert-Amyl alcohol (TAA)       | 1000                | 940           |                  | 1  | 94    | 70-130      | 09/06/2017 2013 |
| tert-Amyl methyl ether (TAME) | 50                  | 52            |                  | 1  | 104   | 70-130      | 09/06/2017 2013 |
| tert-butyl alcohol (TBA)      | 1000                | 1000          |                  | 1  | 103   | 70-130      | 09/06/2017 2013 |
| tert-Butyl formate (TBF)      | 250                 | 230           |                  | 1  | 92    | 70-130      | 09/06/2017 2013 |
| Surrogate                     | Q                   | % Rec         | Acceptance Limit |    |       |             |                 |
| 1,2-Dichloroethane-d4         |                     | 95            | 70-130           |    |       |             |                 |
| Bromofluorobenzene            |                     | 97            | 70-130           |    |       |             |                 |
| Toluene-d8                    |                     | 103           | 70-130           |    |       |             |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ50839-001

Matrix: Aqueous

Batch: 50839

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                     | Result | Q     | DII              | LOQ | DL   | Units | Analysis Date   |
|-------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Dilisopropyl ether (IPE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/07/2017 0946 |
| Ethanol                       | ND     |       | 1                | 100 | 40   | ug/L  | 09/07/2017 0946 |
| 3,3-Dimethyl-1-butanol        | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/07/2017 0946 |
| Ethyl-tert-butyl ether (ETBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/07/2017 0946 |
| tert-Amyl alcohol (TAA)       | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/07/2017 0946 |
| tert-Amyl methyl ether (TAME) | ND     |       | 1                | 10  | 0.42 | ug/L  | 09/07/2017 0946 |
| tert-butyl alcohol (TBA)      | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/07/2017 0946 |
| tert-Butyl formate (TBF)      | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 09/07/2017 0946 |
| Surrogate                     | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4         |        | 103   | 70-130           |     |      |       |                 |
| Bromofluorobenzene            |        | 100   | 70-130           |     |      |       |                 |
| Toluene-d8                    |        | 102   | 70-130           |     |      |       |                 |



LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ50839-002

Matrix: Aqueous

Batch: 50839

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                     | Spike Amount (ug/L) | Result (ug/L) | Q                | DII | % Rec | % Rec Limit | Analysis Date   |
|-------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Diisopropyl ether (IPE)       | 50                  | 52            |                  | 1   | 104   | 70-130      | 09/07/2017 0845 |
| Ethanol                       | 5000                | 4500          |                  | 1   | 90    | 60-140      | 09/07/2017 0845 |
| 3,3-Dimethyl-1-butanol        | 1000                | 940           |                  | 1   | 94    | 60-140      | 09/07/2017 0845 |
| Ethyl-tert-butyl ether (ETBE) | 50                  | 55            |                  | 1   | 110   | 70-130      | 09/07/2017 0845 |
| tert-Amyl alcohol (TAA)       | 1000                | 930           |                  | 1   | 93    | 70-130      | 09/07/2017 0845 |
| tert-Amyl methyl ether (TAME) | 50                  | 51            |                  | 1   | 102   | 70-130      | 09/07/2017 0845 |
| tert-butyl alcohol (TBA)      | 1000                | 1000          |                  | 1   | 102   | 70-130      | 09/07/2017 0845 |
| tert-Butyl formate (TBF)      | 250                 | 280           |                  | 1   | 105   | 70-130      | 09/07/2017 0845 |
| Surrogate                     | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4         |                     | 98            | 70-130           |     |       |             |                 |
| Bromofluorobenzene            |                     | 107           | 70-130           |     |       |             |                 |
| Toluene-d8                    |                     | 99            | 70-130           |     |       |             |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

± = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ51162-001

Matrix: Aqueous

Batch: 51162

Prep Method: 524.2

Analytical Method: 524.2

| Parameter                          | Result | Q     | DH               | LOQ  | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|------|------|-------|-----------------|
| Benzene                            | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| Ethylbenzene                       | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| Naphthalene                        | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| Toluene                            | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| Xylenes (total)                    | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/12/2017 0928 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |      |      |       |                 |
| Bromofluorobenzene                 |        | 77    | 70-130           |      |      |       |                 |
| 1,2-Dichlorobenzene-d4             |        | 92    | 70-130           |      |      |       |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

↕ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ51162-002

Matrix: Aqueous

Batch: 51162

Prep Method: 524.2

Analytical Method: 524.2

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | DII | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Benzene                            | 5.0                 | 4.8           | 1                |     | 95    | 70-130      | 09/12/2017 0817 |
| 1,2-Dichloroethane                 | 5.0                 | 5.0           | 1                |     | 100   | 70-130      | 09/12/2017 0817 |
| Ethylbenzene                       | 5.0                 | 4.6           | 1                |     | 92    | 70-130      | 09/12/2017 0817 |
| Methyl tertiary butyl ether (MTBE) | 5.0                 | 4.7           | 1                |     | 94    | 70-130      | 09/12/2017 0817 |
| Naphthalene                        | 5.0                 | 3.7           | 1                |     | 74    | 70-130      | 09/12/2017 0817 |
| Toluene                            | 5.0                 | 4.7           | 1                |     | 93    | 70-130      | 09/12/2017 0817 |
| Xylenes (total)                    | 10                  | 9.4           | 1                |     | 94    | 70-130      | 09/12/2017 0817 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| Bromofluorobenzene                 |                     | 93            | 70-130           |     |       |             |                 |
| 1,2-Dichlorobenzene-d4             |                     | 97            | 70-130           |     |       |             |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ51335-001

Matrix: Aqueous

Batch: 51335

Prep Method: 524.2

Analytical Method: 524.2

| Parameter                          | Result | Q     | DL               | LOQ  | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|------|------|-------|-----------------|
| Benzene                            | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| Ethylbenzene                       | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| Naphthalene                        | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| Toluene                            | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| Xylenes (total)                    | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/13/2017 1619 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |      |      |       |                 |
| Bromofluorobenzene                 |        | 99    | 70-130           |      |      |       |                 |
| 1,2-Dichlorobenzene-d4             |        | 94    | 70-130           |      |      |       |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ51335-002

Matrix: Aqueous

Batch: 51335

Prep Method: 524.2

Analytical Method: 524.2

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | DI | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|----|-------|-------------|-----------------|
| Benzene                            | 5.0                 | 5.3           |                  | 1  | 105   | 70-130      | 09/13/2017 1543 |
| 1,2-Dichloroethane                 | 5.0                 | 4.9           |                  | 1  | 99    | 70-130      | 09/13/2017 1543 |
| Ethylbenzene                       | 5.0                 | 5.7           |                  | 1  | 114   | 70-130      | 09/13/2017 1543 |
| Methyl tertiary butyl ether (MTBE) | 5.0                 | 5.3           |                  | 1  | 105   | 70-130      | 09/13/2017 1543 |
| Naphthalene                        | 5.0                 | 5.3           |                  | 1  | 107   | 70-130      | 09/13/2017 1543 |
| Toluene                            | 5.0                 | 5.3           |                  | 1  | 105   | 70-130      | 09/13/2017 1543 |
| Xylenes (total)                    | 10                  | 11            |                  | 1  | 109   | 70-130      | 09/13/2017 1543 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |    |       |             |                 |
| Bromofluorobenzene                 |                     | 102           | 70-130           |    |       |             |                 |
| 1,2-Dichlorobenzene-d4             |                     | 98            | 70-130           |    |       |             |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ51410-001  
Batch: 51410

Matrix: Aqueous  
Prep Method: 524.2

Analytical Method: 524.2

| Parameter                          | Result | Q     | DII              | LOQ  | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|------|------|-------|-----------------|
| Benzene                            | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| Ethylbenzene                       | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| Naphthalene                        | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| Toluene                            | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| Xylenes (total)                    | ND     |       | 1                | 0.50 | 0.20 | ug/L  | 09/14/2017 1213 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |      |      |       |                 |
| Bromofluorobenzene                 |        | 103   | 70-130           |      |      |       |                 |
| 1,2-Dichlorobenzene-d4             |        | 98    | 70-130           |      |      |       |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ51410-002

Matrix: Aqueous

Batch: 51410

Prep Method: 524.2

Analytical Method: 524.2

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | DI | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|----|-------|-------------|-----------------|
| Benzene                            | 5.0                 | 5.5           |                  | 1  | 109   | 70-130      | 09/14/2017 1149 |
| 1,2-Dichloroethane                 | 5.0                 | 4.9           |                  | 1  | 98    | 70-130      | 09/14/2017 1149 |
| Ethylbenzene                       | 5.0                 | 5.5           |                  | 1  | 109   | 70-130      | 09/14/2017 1149 |
| Methyl tertiary butyl ether (MTBE) | 5.0                 | 4.5           |                  | 1  | 90    | 70-130      | 09/14/2017 1149 |
| Naphthalene                        | 5.0                 | 5.4           |                  | 1  | 107   | 70-130      | 09/14/2017 1149 |
| Toluene                            | 5.0                 | 5.6           |                  | 1  | 112   | 70-130      | 09/14/2017 1149 |
| Xylenes (total)                    | 10                  | 11            |                  | 1  | 110   | 70-130      | 09/14/2017 1149 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |    |       |             |                 |
| Bromofluorobenzene                 |                     | 101           | 70-130           |    |       |             |                 |
| 1,2-Dichlorobenzene-d4             |                     | 104           | 70-130           |    |       |             |                 |

4

LOQ = Limit of Quantitation

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LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## EDB & DBCP by Microextraction - MB

Sample ID: SQ51148-001

Matrix: Aqueous

Batch: S1148

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 09/12/2017 929

| Parameter                 | Result   | Q            | DII                     | LOQ   | DL     | Units | Analysis Date   |
|---------------------------|----------|--------------|-------------------------|-------|--------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND       |              | 1                       | 0.020 | 0.0080 | ug/L  | 09/12/2017 1141 |
| <b>Surrogate</b>          | <b>Q</b> | <b>% Rec</b> | <b>Acceptance Limit</b> |       |        |       |                 |
| 1,1,1,2-Tetrachloroethane | 92       |              | 57-137                  |       |        |       |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## EDB & DBCP by Microextraction - LCS

Sample ID: SQ51148-002

Matrix: Aqueous

Batch: 51148

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 09/12/2017 929

| Parameter                 | Spike Amount<br>(ug/L) | Result<br>(ug/L) | Q                   | DH | % Rec | % Rec<br>Limit | Analysis Date   |
|---------------------------|------------------------|------------------|---------------------|----|-------|----------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                   | 0.24             |                     | 1  | 95    | 70-130         | 09/12/2017 1154 |
| Surrogate                 | Q                      | % Rec            | Acceptance<br>Limit |    |       |                |                 |
| 1,1,1,2-Tetrachloroethane | 92                     |                  | 57-137              |    |       |                |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## EDB & DBCP by Microextraction - MB

Sample ID: SQS1149-001

Matrix: Aqueous

Batch: S1149

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 09/12/2017 929

| Parameter                 | Result   | Q            | DII                     | LOQ   | DL     | Units | Analysis Date   |
|---------------------------|----------|--------------|-------------------------|-------|--------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND       |              | 1                       | 0.020 | 0.0080 | ug/L  | 09/12/2017 1710 |
| <b>Surrogate</b>          | <b>Q</b> | <b>% Rec</b> | <b>Acceptance Limit</b> |       |        |       |                 |
| 1,1,1,2-Tetrachloroethane |          | 90           | 57-137                  |       |        |       |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

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## EDB & DBCP by Microextraction - LCS

Sample ID: SQ51149-002

Matrix: Aqueous

Batch: 51149

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 09/12/2017 929

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | DII | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.24          |                  | 1   | 94    | 70-130      | 09/12/2017 1722 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                     | 91            | 57-137           |     |       |             |                 |



LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

♦ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## EDB & DBCP by Microextraction - MS

Sample ID: SI06031-006MS

Matrix: Aqueous

Batch: S1149

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 09/12/2017 929

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)           | Q | DII | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|-------------------------|---|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.23                    |   | 1   | 90    | 70-130      | 09/12/2017 1746 |
| <b>Surrogate</b>          | <b>Q</b>             | <b>% Rec</b>        | <b>Acceptance Limit</b> |   |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                      | 89                  | 57-137                  |   |     |       |             |                 |



LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

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## EDB & DBCP by Microextraction - MSD

Sample ID: SI06031-006MD  
Batch 51149

Matrix: Aqueous  
Prep Method: 504.1  
Prep Date: 09/12/2017 929

Analytical Method: 504.1

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)           | Q | DII | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|-------------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.24                    | 1 |     | 95    | 5.4   | 70-130      | 20          | 09/12/2017 1759 |
| <b>Surrogate</b>          | <b>Q</b>             | <b>% Rec</b>        | <b>Acceptance Limit</b> |   |     |       |       |             |             |                 |
| 1,1,1,2-Tetrachloroethane |                      | 92                  | 57-137                  |   |     |       |       |             |             |                 |

4

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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# Chain of Custody and Miscellaneous Documents



ACCUTEST

CHAIN OF CUSTODY

1400 Vinland Rd, Suite C-18, Omaha, NE 68131  
TEL: 402-421-5700 FAX: 402-424-5700  
www.sgs.com

Project Name: FA47280X  
Client Address: 4485 Vinland Rd, Suite C-18, Chicago, IL 60631

Client / Reporting Information: Client Name: 908 Accident, Address: 4485 Vinland Rd, Suite C-18, Chicago, IL 60631. Project Information: Project Name: FA47280X. Requested Analysis: (See TEST CODE sheet). Matrix Codes: CW - Drinking Water, DW - Ground Water, etc.

Table with columns: No. Analyzed, Field ID / Point of Collection, Method, Date, Time, Operator, Matrix, # of Tests, etc. Rows include samples 45A through 50A with collection dates ranging from 07/17/17 to 07/21/17.

Retention Time / Storage (days): 14 Day (check), 30 Day (check), 90 Day (check), 180 Day (check), Other ( ). Comments / Special Instructions: None.

Signature and Date: Analyzed by: S. J. [Signature], Date: 07-26-17. Submitted by: [Signature], Date: 07-26-17.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shelby Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax: (803) 791-9711 www.shelbyenv.com  
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FA47280



CHAIN OF CUSTODY

1103 Vineland Rd, Suite C-15, Orlando, FL 32811
TEL: 407-423-6700 FAX: 407-423-0767
www.sgs.com

REG-04 Analyze North Carolina
SGS Account Code# FA47280X
SGS Project#

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Laboratory Information, Chain of Custody Table (Date, Time, Sampled by, Method, etc.), Turnaround Time, and Signatures/Notes sections.

Shealy Environmental Services, Inc.
108 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com
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SHEALY ENVIRONMENTAL SERVICES, INC.

SGS ACCUTEST FA47280 169 OF 210

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: NE0918C-09

Page 1 of 1  
Effective Date: 07/28/2017  
Expiry Date: 07/28/2022

## Sample Receipt Checklist (SRC)

Client: SGS Accutest Cooler Inspected by/date: SPC 19/6/17 Lot #: 5106031

|   |  |  |
|---|--|--|
| Means of receipt: <input type="checkbox"/> SEBI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other                             |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            | 1. Were custody seals present on the cooler? |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            | NA <input type="checkbox"/>                  |
| 2. If custody seals were present, were they intact and unbroken?  |  |  |
| pH strip ID: _____ Cl strip ID: _____   |  |  |
| Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:<br><u>16.0/16.0</u> °C / / °C / / °C / / °C / / °C  |  |  |
| Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C  |  |  |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None   |  |  |
| Yes <input type="checkbox"/>  | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>       |
| 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).  |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            | NA <input type="checkbox"/>                  |
| 4. Is the commercial courier's packing slip attached to this form?  |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 5. Were proper custody procedures (relinquished/received) followed?   |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 6. Were sample IDs listed on the COC?   |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 7. Were sample IDs listed on all sample containers?   |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 8. Was collection date & time listed on the COC?  |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 9. Was collection date & time listed on all sample containers?  |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 10. Did all container label information (ID, date, time) agree with the COC?  |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 11. Were tests to be performed listed on the COC?   |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?   |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            |  |
| 13. Was adequate sample volume available?   |  |  |
| Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/> | NA <input checked="" type="checkbox"/>       |
| 14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?   |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/>                  |
| 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?  |  |  |
| Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>            | NA <input type="checkbox"/>                  |
| 16. Were bubbles present > "pea-size" (1/4" or 6mm in diameter) in any VOA vials?   |  |  |
| Yes <input type="checkbox"/>  | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>       |
| 17. Were all DRO/metals/nutrient samples received at a pH of < 2?   |  |  |
| Yes <input type="checkbox"/>  | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>       |
| 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?  |  |  |
| Yes <input type="checkbox"/>  | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>       |
| 19. Were all applicable NHD/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?   |  |  |
| Yes <input type="checkbox"/>  | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>       |
| 20. Were collection temperatures documented on the COC for NC samples?  |  |  |
| Yes <input type="checkbox"/>  | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>       |
| 21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?   |  |  |
| Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/> |  |
| 22. Was the quote number used taken from the container label?   |  |  |
| Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/> |  |
| Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)  |  |  |
| Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____                 |  |  |
| Sample(s) <u>All HCl vials have bubbles</u> were received with bubbles > 6 mm in diameter.  |  |  |
| Sample(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: _____ |  |  |
| SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____  |  |  |
| Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____  |  |  |
| Sample labels applied by: <u>RF</u> Date: <u>9/6/17</u>   |  |  |

Comments: WSW-9 only had 4 HCl + 2 for EDB SO4, used 4 HCl for TB

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Misc. Forms

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**5**

### Custody Documents and Other Forms

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Includes the following where applicable:

- Certification Exceptions
- Chain of Custody



## Parameter Certification Exceptions

Page 1 of 1

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

The following parameters included in this report are exceptions to NELAC certification.  
The certification status of each is indicated below.

| Parameter              | CAS#     | Method      | Mat | Certification Status   |
|------------------------|----------|-------------|-----|------------------------|
| 3,3-Dimethyl-1-Butanol | 624-95-3 | SW846 8260B | AQ  | Certified by SOP MS005 |
| Di-Isopropyl Ether     | 108-20-3 | SW846 8260B | AQ  | Certified by SOP MS005 |
| Tert-Amyl Alcohol      | 75-85-4  | SW846 8260B | AQ  | Certified by SOP MS005 |
| Tert-Butyl Formate     | 762-75-4 | SW846 8260B | AQ  | Certified by SOP MS005 |

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SC04EC FA47290

SGS ACCUTEST JOB #: PAGE 1 OF 6

| Client / Reporting Information   |                                | Project Information                     |                |                             |                | Analytical Information   |                |                             |                |                         |                |                         |      |      |      | Matrix Codes  |      |      |      |      |      |   |   |
|--|--------------------------------|---|----------------|-----------------------------|----------------|--|----------------|-----------------------------|----------------|-------------------------|----------------|-------------------------|------|------|------|---|------|------|------|------|------|---|---|
| Company Name: <b>GEOLOGICAL RESOURCES, INC.</b>  |                                | Project Name: <b>37B TRUCK STOP</b>     |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      | DW - Drinking Water<br>GW - Ground Water<br>WW - Water<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>OI - Oil<br>LIQ - Other Liquid<br>AIR - Air |      |      |      |      |      |   |   |
| Address: <b>3502 HAYES ROAD</b>  |                                | Street: <b>731 Highway 37B</b>          |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| City: <b>MOORE</b> State: <b>NC</b> Zip: <b>28110</b>  |                                | City: <b>EDGEFIELD</b> State: <b>SC</b> |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Project Contact: <b>LETT DAU</b> Email: <b>LSDB@</b>   |                                | Project #: <b>4422</b>                  |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Phone #: <b>704-845-4010</b>   |                                | Permit: <b>UST PERMIT # 07960</b>       |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Sampler(s) Name(s) (Printed):  |                                | Client Purchase Order #:                |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Sampler 1: <b>CRU J.</b>   |                                |   |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Sampler 2: <b>B. Johnson</b>   |                                |   |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| SGS Accutest Sample #  | Field ID / Point of Collection | COLLECTION                              |                |                             |                | CONTAINER INFORMATION  |                |                             |                |                         |                |                         |      |      |      | LAB USE ONLY  |      |      |      |      |      |   |   |
|  |                                | DATE                                    | TIME           | SAMPLED BY:                 | MATRIX         | TOTAL # OF BOTTLES   | OTHER          | NOSE                        | NO             | WASH                    | WASH           | WASH                    | WASH | WASH | WASH |   | WASH | WASH | WASH | WASH | WASH |   |   |
| 1  | 07960-MW-1                     | 08/11/17                                | 0750           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 2  | 07960-MW-2                     | 08/11/17                                | 0723           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 3  | 07960-MW-3                     | Hot 08/11/17                            | 1507           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 4  | 07960-MW-4                     | Hot 08/11/17                            | 0956           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 5  | 07960-MW-5                     | 08/11/17                                | 0941           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 6  | 07960-MW-6                     | 08/11/17                                | 0821           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 7  | 07960-MW-7                     | Hot 08/11/17                            | 0921           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 8  | 07960-MW-8                     | 08/11/17                                | 0926           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 9  | 07960-MW-9                     | 08/11/17                                | 1441           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 10   | 07960-MW-10                    | 08/11/17                                | 1333           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 11   | 07960-MW-11                    | Hot 08/11/17                            | 1628           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| 12   | 07960-MW-12                    | Hot 08/11/17                            | 1529           | cab                         | GW             | 5  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      | X | X |
| Turnaround Time (Business days)  |                                | Data Deliverable Information            |                |                             |                | Comments / Remarks   |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| <input checked="" type="checkbox"/> 10 Day (Business)<br><input type="checkbox"/> 7 Day<br><input type="checkbox"/> 5 Day<br><input type="checkbox"/> 3 Day RUSH<br><input type="checkbox"/> 2 Day RUSH<br><input type="checkbox"/> 1 Day RUSH<br><input type="checkbox"/> Other |                                | Approved By: / Date:                    |                |                             |                | <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY)<br><input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS)<br><input type="checkbox"/> REDT1 (EPA LEVEL 1)<br><input type="checkbox"/> FULLT1 (EPA LEVEL 4)<br><input type="checkbox"/> EDD'S<br><b>2826-C QUEEN ST / DR</b><br><b>CLI NC 28233</b><br><b>BH06225 4378</b> |                |                             |                |                         |                |                         |      |      |      | SC04EC UST MANAGEMENT PROGRAM<br>UST PERMIT # 07960   |      |      |      |      |      |   |   |
| Rush T/A Data Available VIA Email or Lablink   |                                |   |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Sample Custody must be documented below each time samples change possession, including courier delivery.   |                                |   |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |
| Relinquished by Sampler/Affiliation  | Date Time                      | Received By/Affiliation                 | Date Time      | Relinquished By/Affiliation | Date Time      | Received By/Affiliation  | Date Time      | Relinquished By/Affiliation | Date Time      | Received By/Affiliation | Date Time      | Received By/Affiliation |      |      |      |   |      |      |      |      |      |   |   |
| 1 <b>Corey McArthur</b>  | 08/11/17 19:30                 | 2 <b>PEOK</b>                           | 08/11/17 19:30 | 3 <b>Fed Ex</b>             | 08/11/17 19:30 | 4 <b>Fed Ex</b>  | 08/11/17 19:30 | 5 <b>Fed Ex</b>             | 08/11/17 19:30 | 6 <b>Fed Ex</b>         | 08/11/17 19:30 | 7 <b>Fed Ex</b>         |      |      |      |   |      |      |      |      |      |   |   |
| Relinquished by/Affiliation  | Date Time                      | Received By/Affiliation                 | Date Time      | Relinquished By/Affiliation | Date Time      | Received By/Affiliation  | Date Time      | Relinquished By/Affiliation | Date Time      | Received By/Affiliation | Date Time      | Received By/Affiliation |      |      |      |   |      |      |      |      |      |   |   |
| 5  |                                | 6                                       |                | 7                           |                | 8  |                | 9                           |                | 10                      |                | 11                      |      |      |      |   |      |      |      |      |      |   |   |
| Lab Use Only: Cooler Temperature (s) Celsius: <b>3.2, 3.4, 3.8</b>   |                                |   |                |                             |                |  |                |                             |                |                         |                |                         |      |      |      |   |      |      |      |      |      |   |   |

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SGS ACCUTEST JOB # :

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SGS Accutest Quote # SKIFF #

| Client / Reporting Information   |                                | Project Information   |          | Analytical Information  |        |                    |       |                             |   |            |      |                         |       | Matrix Codes  |      |
|--|--------------------------------|---|----------|---|--------|--------------------|-------|-----------------------------|---|------------|------|-------------------------|-------|---|------|
| Company Name: <b>GRJ</b>   |                                | Project Name: <b>378 TRUCK STOP</b>   |          |   |        |                    |       |                             |   |            |      |                         |       | LW - Drinking Water<br>GW - Ground Water<br>WW - Wastewater<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>LIQ - Oil<br>LIQ - Other Liquid<br>AIR - Air |      |
| Address: <b>3502 HAYES ROAD</b>  |                                | Street: <b>731 Highway 378</b>  |          |   |        |                    |       |                             |   |            |      |                         |       |   |      |
| City: <b>MONROE</b> State: <b>NC</b> Zip: <b>28110</b>   |                                | City: <b>EDGEFIELD</b> State: <b>SC</b>   |          |   |        |                    |       |                             |   |            |      |                         |       |   |      |
| Project Contact: <b>SCOTT BAUL</b> Email: <b>CS80</b>  |                                | Project # <b>4422</b>   |          |   |        |                    |       |                             |   |            |      |                         |       |   |      |
| Phone #: <b>704-845-4010</b>   |                                | Permit # <b>UST PERMIT 07960</b>  |          |   |        |                    |       |                             |   |            |      |                         |       |   |      |
| Sampler(s) Name(s) (Printed):<br>Sampler 1: <b>COBBY N.</b> Sampler 2:   |                                | Client Purchase Order #   |          |   |        |                    |       |                             |   |            |      |                         |       |   |      |
| SGS Accutest Sample #  | Field ID / Point of Collection | COLLECTION  |          | CONTAINER INFORMATION   |        |                    |       |                             |   |            |      |                         |       | LAB USE ONLY  |      |
|  |                                | DATE  | TIME     | SAMPLED BY  | MATRIX | TOTAL # OF BOTTLES | OTHER | MARK                        | Q | WASH       | HOOK | WARRANTY                | WATER |   | MESH |
| 13   | 07960 - MW-13                  | Nov   | 08/30/17 | 1611  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 14   | 07960 - MW-14                  |   | 08/30/17 | 1657  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 15   | 07960 - MW-15                  |   | 08/30/17 | 1641  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 16   | 07960 - MW-16                  | Nov   | 08/30/17 | 1026  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 17   | 07960 - MW-17                  |   | 08/30/17 | 1826  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 18   | 07960 - MW-18                  |   | 08/30/17 | 1624  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 19   | 07960 - MW-19                  |   | 08/30/17 | 1626  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 20   | 07960 - MW-20                  |   | 08/30/17 | 0856  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 21   | 07960 - MW-21                  |   | 08/30/17 | 0853  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 22   | 07960 - MW-22                  | Banner  | 08/30/17 | 1556  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 23   | 07960 - MW-23                  |   | 08/30/17 | 0900  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| 24   | 07960 - MW-24                  |   | 08/30/17 | 1102  | cnb    | GW                 | 5     |                             |   |            |      |                         |       | X   | X    |
| Turnaround Time (Business days)  |                                | Data Deliverable information  |          | Comments / Remarks  |        |                    |       |                             |   |            |      |                         |       |   |      |
| <input checked="" type="checkbox"/> 10 Day (Business)<br><input type="checkbox"/> 7 Day<br><input type="checkbox"/> 5 Day<br><input type="checkbox"/> 3 Day RUSH<br><input type="checkbox"/> 2 Day RUSH<br><input type="checkbox"/> 1 Day RUSH<br><input type="checkbox"/> Other |                                | Approved By: / Date: _____<br><input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY)<br><input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QA)<br><input type="checkbox"/> REDT1 (EPA LEVEL 3)<br><input type="checkbox"/> FULLT1 (EPA LEVEL 6)<br><input type="checkbox"/> EDD'S |          | SCOHEC UST MANAGEMENT program<br>ACCUTEST<br>2826 QUEEN CITY DR<br>CLI_NC_28203<br>UST PERMIT # 07960 |        |                    |       |                             |   |            |      |                         |       |   |      |
| Rush T/A Data Available VIA Email or Lablink   |                                |   |          |   |        |                    |       |                             |   |            |      |                         |       |   |      |
| Relinquished by Sampler/Affiliation  |                                | Date Time:  |          | Received By/Affiliation   |        | Date Time:         |       | Relinquished By/Affiliation |   | Date Time: |      | Received By/Affiliation |       |   |      |
| 1 <b>COBBY N. BUCHANAN</b>   |                                | 8/31/17 19:30   |          | 2 <b>FEDEX</b>  |        |                    |       | 3 <b>Fed Ex</b>             |   |            |      | 4 <b>FEDEX</b> 09/10/17 |       |   |      |
| 5  |                                |   |          | 6   |        |                    |       | 7                           |   |            |      | 8                       |       |   |      |

Lab Use Only: Cooler Temperature (a) Celsius:

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SGS Accutest Quote # SKIFF #

| Client / Reporting Information   |                                |                | Project Information  |                         |        |                    | Analytical Information  |                             |    |            |       |                         |     |            |        |                         |              |              | Matrix Codes   |  |
|--|--------------------------------|----------------|--|-------------------------|--------|--------------------|---|-----------------------------|----|------------|-------|-------------------------|-----|------------|--------|-------------------------|--------------|--------------|--|--|
| Company Name: <b>GRES</b>  |                                |                | Project Name: <b>370 TRUCK STOP</b>  |                         |        |                    | EDO'S BY BOLL<br>8 ANALYSES BY BOLL<br>EDO'S BY BOLL<br>8 ANALYSES BY BOLL<br>EDO'S BY BOLL |                             |    |            |       |                         |     |            |        |                         |              |              | LW - Drinking Water<br>GW - Ground Water<br>WW - Water<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>LI - Oil<br>LQ - Other Liquid<br>ALR - Air |  |
| Address: <b>3502 HAYES ROAD</b>  |                                |                | Street: <b>731 HIGHWAY 370</b>   |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| City: <b>MAURICE</b> State: <b>NC</b> Zip: <b>28110</b>  |                                |                | City: <b>GREENSBORO</b> State: <b>NC</b>   |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Project Contact: <b>WATT BALL</b> Email: <b>USB@</b>   |                                |                | Project # <b>4422</b>  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Phone #: <b>704-845-4010</b>   |                                |                | Permit # <b>USF PERMIT # 07960</b>   |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Sampler(s) Name(s) (Printed)   |                                |                | Client Purchase Order #  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Sampler 1: <b>GREY N. BACHMAN</b>  |                                |                |  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| SGS Accutest Sample #  | Field ID / Point of Collection | DATE           | TIME   | SAMPLED BY              | MATRIX | TOTAL # OF BOTTLES | CATCH   | MISC                        | DO | PH         | FROTH | FOAM                    | OIL | SOLIDS     | METALS | OTHER                   | LAB USE ONLY |              |  |  |
|  |                                |                |  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              | LAB USE ONLY |  |  |
| 37   | 07960-TW-6                     | 08/30/17       | 1042   | GNB                     | GW     | 5                  |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 38   | 07960-TW-7                     | 08/29/17       | 1753   | GNB                     | GW     | 5                  |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 39   | 07960-TW-8                     | 08/30/17       | 0943   | GNB                     | GW     | 5                  |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 40   | 07960-TW-9                     | 08/30/17       | 1159   | GNB                     | GW     | 5                  |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 41   | 07960-DP-A                     | HOT            | 08/30/17   | 1200                    | GNB    | GW                 | 5   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 42   | 07960-DP-B                     | HOT            | 08/30/17   | 1201                    | GNB    | GW                 | 5   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 43   | 07960-FEED BLANK               | 08/31/17       | 0742   | GNB                     | LSG    | 5                  |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 44   | 07960-FEED BLANK               | 08/31/17       | 0700   | GNB                     | LSG    | 2                  |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 45   | 07960-WSW-1 (PRE)              | 08/31/17       | 1014   | GNB                     | DW     | 9                  | 3   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 46   | 07960-WSW-1 (POST)             | 08/31/17       | 1017   | GNB                     | DW     | 9                  | 3   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 47   | 07960-DP-C                     | 08/31/17       | 1202   | GNB                     | DW     | 9                  | 3   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| 48   | 07960-WSW-2                    | 08/31/17       | 1830   | GNB                     | DW     | 9                  | 3   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Turnaround Time (Business days)  |                                |                | Data Deliverable Information   |                         |        |                    | Comments / Remarks  |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| <input checked="" type="checkbox"/> 10 Day (Business)<br><input type="checkbox"/> 7 Day<br><input type="checkbox"/> 5 Day<br><input type="checkbox"/> 3 Day RUSH<br><input type="checkbox"/> 2 Day RUSH<br><input type="checkbox"/> 1 Day RUSH<br><input type="checkbox"/> Other |                                |                | Approved By: / Date: _____<br><input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY)<br><input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS AND DATA)<br><input type="checkbox"/> REDT1 (EPA LEVEL 1)<br><input type="checkbox"/> FULLT1 (EPA LEVEL 1)<br><input type="checkbox"/> EDO'S |                         |        |                    | 2828 P QUEEN C'T / DR<br>CLT NC 28233<br>SCHE USE MANAGEMENT PROGRAM<br>USF PERMIT # 07960  |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Rush T/A Data Available VIA Email or Lablink   |                                |                |  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Sample Custody must be documented below each time samples change possession, including courier delivery.   |                                |                |  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |
| Relinquished by Sampler/Affiliation  |                                | Date Time:     |  | Received By/Affiliation |        | Date Time:         |   | Relinquished By/Affiliation |    | Date Time: |       | Received By/Affiliation |     | Date Time: |        | Received By/Affiliation |              | Date Time:   |  |  |
| W. N. Bachman  |                                | 08/31/17 17:30 |  | FEDEX                   |        |                    |   | Fed Ex                      |    |            |       | 09/01/17                |     |            |        |                         |              |              |  |  |
| 5  |                                |                |  | 6                       |        |                    |   | 7                           |    |            |       | 8                       |     |            |        |                         |              |              |  |  |
| Lab Use Only: Cooler Temperature (g) Celsius:  |                                |                |  |                         |        |                    |   |                             |    |            |       |                         |     |            |        |                         |              |              |  |  |

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ACCUTEST

SGS Accutest Southeast Chain of Custody

4405 Worland Road, Suite C-15 Orlando, FL 32811  
TEL: 407-425-6700 FAX: 407-425-0707  
WWW.ACCUTEST.COM

SCDHCC FA47290  
SGS ACCUTEST JOB #: PAGE 5 OF 6

| Client / Reporting Information   |                                | Project Information   |                             |             |                         | Analytical Information   |             |                         |                             |             |                         |                             |             |                         |                             |             |                         | Matrix Codes  |
|--|--------------------------------|---|-----------------------------|-------------|-------------------------|--|-------------|-------------------------|-----------------------------|-------------|-------------------------|-----------------------------|-------------|-------------------------|-----------------------------|-------------|-------------------------|---|
| Company Name: <u>CORTE</u>   |                                | Project Name: <u>378 TRUCK STOP</u>   |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         | LW - Drinking Water<br>GW - Ground Water<br>WW - Water<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>OL - Oil<br>LIQ - Other Liquid<br>AIR - Air |
| Address: <u>3502 HAYES ROAD</u>  |                                | Street: <u>731 HIGHWAY 378</u>  |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| City: <u>MOORE</u> State: <u>TX</u> Zip: <u>78110</u>  |                                | City: <u>ROGERS</u> State: <u>SC</u>  |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| Project Contact: <u>704-845-4610</u> Email: <u>USBC@SCOTTBALL.COM</u>  |                                | Project #: <u>4422</u>  |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| Sampler(s) Name(s) (Printed): <u>SCOTT BALL</u>  |                                | Client Purchase Order #: <u>UST PERMIT # 07960</u>  |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| SGS Accutest Sample #  | Field ID / Point of Collection | DATE  | TIME                        | SAMPLED BY  | MATRIX                  | TOTAL # OF BOTTLES   | OTHER       | NONE                    | NO                          | NO          | NO                      | NO                          | NO          | NO                      | NO                          | NO          | NO                      | LAB USE ONLY  |
| 49   | 07960-WSW-3                    | 08/31/17  | 1249                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 50   | 07960-WSW-4                    | 08/31/17  | 1311                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 51   | 07960-WSW-5                    | 08/31/17  | 1256                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 52   | 07960-WSW-14                   | 08/31/17  | 1140                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 53   | 07960-WSW-7                    | 08/31/17  | 1031                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 54   | 07960-WSW-8 (P&E)              | 08/31/17  | 1047                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 55   | 07960-WSW-8 (POST)             | 08/31/17  | 1051                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 56   | 07960-WSW-9                    | 08/31/17  | 1101                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 57   | 07960-WSW-10                   | 08/31/17  | 1111                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 58   | 07960-WSW-11                   | 08/31/17  | 1123                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 59   | 07960-WSW-12                   | 08/31/17  | 1132                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| 60   | 07960-WSW-13                   | 08/31/17  | 1201                        | CB          | DW                      | 9  | 3           | 6                       |                             |             |                         |                             |             |                         |                             |             |                         | X X X   |
| Turnaround Time (Business days)  |                                | Date Deliverable Information  |                             |             |                         | Comments / Remarks   |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| <input checked="" type="checkbox"/> 10 Day (Business)<br><input type="checkbox"/> 7 Day<br><input type="checkbox"/> 5 Day<br><input type="checkbox"/> 3 Day RUSH<br><input type="checkbox"/> 2 Day RUSH<br><input type="checkbox"/> 1 Day RUSH<br><input type="checkbox"/> Other |                                | Approved By: / Date: _____<br><input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY)<br><input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC)<br><input type="checkbox"/> REDT1 (EPA LEVEL 1)<br><input type="checkbox"/> FULLT1 (EPA LEVEL 1)<br><input type="checkbox"/> EDO'S |                             |             |                         | SCDHCC UST MANAGEMENT Program<br>UST PERMIT # 07960<br>2022-2023<br>QUEEN CIT DR<br>CLI NC 28203 |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| Rush T/A Data Available VIA Email or Lablink   |                                |   |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| Sample Custody must be documented below each time samples change possession, including courier delivery.   |                                |   |                             |             |                         |  |             |                         |                             |             |                         |                             |             |                         |                             |             |                         |   |
| Relinquished By/Affiliation  | Date Time                      | Received By/Affiliation   | Relinquished By/Affiliation | Date Time   | Received By/Affiliation | Relinquished By/Affiliation  | Date Time   | Received By/Affiliation | Relinquished By/Affiliation | Date Time   | Received By/Affiliation | Relinquished By/Affiliation | Date Time   | Received By/Affiliation | Relinquished By/Affiliation | Date Time   | Received By/Affiliation |   |
| 1  | <u>08/31/17 1330</u>           | <u>SCOTT BALL</u>   | 3                           | <u>1400</u> | <u>Fed Ex</u>           | 4  | <u>1400</u> | <u>SCDHCC</u>           | 5                           | <u>1400</u> | <u>SCDHCC</u>           | 6                           | <u>1400</u> | <u>SCDHCC</u>           | 7                           | <u>1400</u> | <u>SCDHCC</u>           |   |
| 5  |                                |   | 6                           |             |                         | 7  |             |                         | 8                           |             |                         | 9                           |             |                         | 10                          |             |                         |   |

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ACCUTEST

SGS Accutest Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811  
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FA47290

SGS ACCUTEST JOB #:

PAGE 6 OF 6

SGS Accutest Quote # SKIFF #

| Client / Reporting Information   |  | Project Information  |  | Analytical Information   |  |            |  |                             |  |                    |  |                         |  | Matrix Codes  |  |                         |  |      |  |                        |  |      |  |              |  |
|--|--|--|--|--|--|------------|--|-----------------------------|--|--------------------|--|-------------------------|--|---|--|-------------------------|--|------|--|------------------------|--|------|--|--------------|--|
| Company Name: <b>GRI</b>   |  | Project Name: <b>378 Truck Stop</b>  |  |  |  |            |  |                             |  |                    |  |                         |  | DW - Drinking Water<br>GW - Ground Water<br>WW - Water<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>OL - Oil<br>LIQ - Other Liquid<br>AIR - Air |  |                         |  |      |  |                        |  |      |  |              |  |
| Address: <b>3502 HAYES ROAD</b>  |  | Street: <b>731 HIGHWAY 378</b>   |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| City: <b>MORRIS</b> State: <b>NC</b> Zip: <b>28140</b>   |  | City: <b>EDGEFIELD</b> State: <b>SC</b>  |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| Project Contact: <b>SCOTT BAU</b> Email: <b>WSB</b>  |  | Project #: <b>4422</b>   |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| Phone #: <b>704-685-4610</b>   |  | Fax #: <b>WST PERMIT # 07960</b>   |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| Sampler(s) Name(s) (Printed):<br>Sampler 1: <b>COCKY N.</b> Sampler 2:   |  | Client Purchase Order #  |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| SGS Accutest Sample #  |  | Field ID / Point of Collection   |  | COLLECTION   |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
|  |  | DATE   |  | TIME   |  | SAMPLED BY |  | MATRIX                      |  | TOTAL # OF BOTTLES |  | OTHER                   |  | VOLUME  |  | MATH                    |  | MISC |  | NON-HAZARDOUS TO WATER |  | MICH |  | LAB USE ONLY |  |
| 61   |  | 07960 - WSW-15   |  | 08/31/12   |  | 1151       |  | 115                         |  | 20                 |  | 9                       |  | 2   |  | 6                       |  |      |  |                        |  |      |  |              |  |
| 62   |  | 07960 - WSW-X  |  | 08/31/12   |  | 1403       |  | 115                         |  | 20                 |  | 9                       |  | 3   |  | 6                       |  |      |  |                        |  |      |  |              |  |
| 63   |  | 07960 - WSW-FB   |  | 08/31/12   |  | 1342       |  | 115                         |  | 20                 |  | 9                       |  | 2   |  | 6                       |  |      |  |                        |  |      |  |              |  |
| 64   |  | 07960 - WSW-TREP/BANK  |  | 08/31/12   |  | 0701       |  | 115                         |  | 20                 |  | 9                       |  | 3   |  | 3                       |  |      |  |                        |  |      |  |              |  |
| Turnaround Time (Business days)  |  | Data Deliverable Information   |  | Comments / Remarks   |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| <input checked="" type="checkbox"/> 10 Day Business<br><input type="checkbox"/> 7 Day<br><input type="checkbox"/> 5 Day<br><input type="checkbox"/> 3 Day RUSH<br><input type="checkbox"/> 2 Day RUSH<br><input type="checkbox"/> 1 Day RUSH<br><input type="checkbox"/> Other |  | Approved By: / Date:   |  | <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY)<br><input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC)<br><input type="checkbox"/> REDT1 (EPA LEVEL 3)<br><input type="checkbox"/> FULL 2828<br><input type="checkbox"/> EDD'S |  |            |  |                             |  |                    |  |                         |  | SCONE WST MANAGEMENT PROGRAM<br>WST PERMIT # 07960  |  |                         |  |      |  |                        |  |      |  |              |  |
| Rush T/A Data Available Via Email or Lablink   |  | Sample Custody must be documented below each time samples change possession, including courier delivery. |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| Relinquished by Sampler/Affiliation  |  | Date Time  |  | Received By/Affiliation  |  | Date Time  |  | Relinquished By/Affiliation |  | Date Time          |  | Received By/Affiliation |  | Date Time   |  | Received By/Affiliation |  |      |  |                        |  |      |  |              |  |
| 1 <b>COCKY N.</b>  |  | 08/31/12 1430  |  | 2 <b>FED EX</b>  |  |            |  | 3 <b>Fed Ex</b>             |  |                    |  | 4 <b>My/c</b>           |  | 09/01/12  |  |                         |  |      |  |                        |  |      |  |              |  |
| 5  |  |  |  | 6  |  |            |  | 7                           |  |                    |  | 8                       |  |   |  |                         |  |      |  |                        |  |      |  |              |  |
| Lab Use Only : Cooler Temperature (c) Celsius:   |  |  |  |  |  |            |  |                             |  |                    |  |                         |  |   |  |                         |  |      |  |                        |  |      |  |              |  |

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### SGS Accutest Sample Receipt Summary

Job Number: FA47290

Client: GRI

Project: 378 TRUCK STOP

Date / Time Received: 9/1/2017 10:30:00 AM

Delivery Method: FED EX

Airbill #'s: 8110 6225 2982

Therm ID: IR 1; Therm CF: -0.2; # of Coolers: 3  
 Cooler Temps (Raw Measured) °C: Cooler 1: (3.4); Cooler 2: (3.6); Cooler 3: (4.0);  
 Cooler Temps (Corrected) °C: Cooler 1: (3.2); Cooler 2: (3.4); Cooler 3: (3.8);

**Cooler Information**

|                             | Y                                   | or | N                        |
|-----------------------------|-------------------------------------|----|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> |
| 4. Cooler temp verification | IR Gun                              |    |                          |
| 5. Cooler media             | Ice (Bag)                           |    |                          |

**Sample Information**

|   | Y                                   | or | N                                   | N/A                                 |
|---|-------------------------------------|----|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input type="checkbox"/>            |    | <input checked="" type="checkbox"/> |                                     |
| 4. Condition of sample                              | Broken / Leaking                    |    |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input checked="" type="checkbox"/> |    | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            |    | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            |    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Trip Blank Information**

|                                | Y                                   | or | N                        | N/A                      |
|--------------------------------|-------------------------------------|----|--------------------------|--------------------------|
| 1. Trip Blank present / cooler | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> | <input type="checkbox"/> |
|                                | W                                   | or | S                        | N/A                      |
| 3. Type Of TB Received         | <input checked="" type="checkbox"/> |    | <input type="checkbox"/> | <input type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments: SAMPLE #1-43 REC'D 2- VIALS FOR EDB. SAMPLE #52 HAS 1- EDB VIAL BROKEN. SAMPLE #53 4- VOC VIALS AND 1- EDB HAVE HEADSPACE. SAMPLE #56 1- VIAL FOR EACH ANALYSIS REC'D EMPTY; 3- VOC VIALS AND 1- EDB VIAL HAS HEADSPACE.

SM001 Rev. Date 05/24/17 Technician: SHAYLAP Date: 9/1/2017 10:30:00 AM Reviewer: PDS Date: 9/2/2017

FA47290: Chain of Custody  
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**MS Volatiles**

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**QC Data Summaries**

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP2000-MB | P52657.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2000           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5, FA47290-6, FA47290-7, FA47290-8, FA47290-9,  
 FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-  
 18, FA47290-19, FA47290-20

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  |      | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%  | 79-125% |
| 2037-26-5  | Toluene-D8            | 106% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106% | 83-118% |

6.1.1

6

# Method Blank Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP2002-MB | P52685.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2002           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-41, FA47290-42, FA47290-43, FA47290-44

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 97% 83-118%  |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% 79-125%  |
| 2037-26-5  | Toluene-D8            | 107% 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106% 83-118% |

612  
6

# Method Blank Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| V5E132-MB | 5E3158.D | 1  | 09/06/17 | SP | n/a       | n/a        | V5E132           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25, FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  |      | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 79-125% |
| 2037-26-5  | Toluene-D8            | 102% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 112% | 83-118% |

6.1.3



**Method Blank Summary**

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP2004-MB | P52739.D | 1  | 09/08/17 | SP | n/a       | n/a        | VP2004           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-1, FA47290-22

| CAS No.   | Compound       | Result | RL  | MDL  | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 108-88-3  | Toluene        | ND     | 1.0 | 0.30 | ug/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  |      | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%  | 79-125% |
| 2037-26-5  | Toluene-D8            | 104% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 114% | 83-118% |

6.1.4  
6

## Method Blank Summary

Page 1 of 1

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| VB5007-MB | B124449.D | 1  | 09/13/17 | AJ | n/a       | n/a        | VB5007           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33

| CAS No.  | Compound           | Result | RL  | MDL  | Units | Q |
|----------|--------------------|--------|-----|------|-------|---|
| 108-20-3 | Di-Isopropyl Ether | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-85-4  | Tert-Amyl Alcohol  | ND     | 20  | 5.3  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  |      | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%  | 79-125% |
| 2037-26-5  | Toluene-D8            | 102% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 83-118% |

6.1.5

6

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP2000-BS | P52656.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2000           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5, FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20

| CAS No.   | Compound                | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|-------------------------|------------|----------|-------|--------|
| 71-43-2   | Benzene                 | 25         | 25.8     | 103   | 81-122 |
| 107-06-2  | 1,2-Dichloroethane      | 25         | 24.3     | 97    | 75-125 |
| 108-20-3  | Di-Isopropyl Ether      | 25         | 26.4     | 106   | 68-123 |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | 1250       | 1270     | 102   | 55-126 |
| 64-17-5   | Ethyl Alcohol           | 500        | 488      | 98    | 46-145 |
| 100-41-4  | Ethylbenzene            | 25         | 27.0     | 108   | 81-121 |
| 637-92-3  | Ethyl Tert Butyl Ether  | 25         | 23.6     | 94    | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25         | 22.9     | 92    | 72-117 |
| 91-20-3   | Naphthalene             | 25         | 24.3     | 97    | 63-132 |
| 75-85-4   | Tert-Amyl Alcohol       | 250        | 258      | 103   | 65-124 |
| 994-05-8  | Tert-Amyl Methyl Ether  | 25         | 23.0     | 92    | 73-122 |
| 75-65-0   | Tert-Butyl Alcohol      | 250        | 266      | 106   | 63-129 |
| 762-75-4  | Tert-Butyl Formate      | 250        | 167      | 67    | 46-130 |
| 108-88-3  | Toluene                 | 25         | 26.9     | 108   | 80-120 |
| 1330-20-7 | Xylene (total)          | 75         | 82.8     | 110   | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP | Limits  |
|------------|-----------------------|-----|---------|
| 1868-53-7  | Dibromofluoromethane  | 96% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 79-125% |
| 2037-26-5  | Toluene-D8            | 99% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99% | 83-118% |

\* = Outside of Control Limits.

6.2.1  
6

# Blank Spike Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP2002-BS | P52684.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2002           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-41, FA47290-42, FA47290-43, FA47290-44

| CAS No.   | Compound                | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|-------------------------|------------|----------|-------|--------|
| 71-43-2   | Benzene                 | 25         | 25.2     | 101   | 81-122 |
| 107-06-2  | 1,2-Dichloroethane      | 25         | 23.9     | 96    | 75-125 |
| 108-20-3  | Di-Isopropyl Ether      | 25         | 26.6     | 106   | 68-123 |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | 1250       | 1250     | 100   | 55-126 |
| 64-17-5   | Ethyl Alcohol           | 500        | 442      | 88    | 46-145 |
| 100-41-4  | Ethylbenzene            | 25         | 26.6     | 106   | 81-121 |
| 637-92-3  | Ethyl Tert Butyl Ether  | 25         | 24.0     | 96    | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25         | 23.3     | 93    | 72-117 |
| 91-20-3   | Naphthalene             | 25         | 23.8     | 95    | 63-132 |
| 75-85-4   | Tert-Amyl Alcohol       | 250        | 235      | 94    | 65-124 |
| 994-05-8  | Tert-Amyl Methyl Ether  | 25         | 23.2     | 93    | 73-122 |
| 75-65-0   | Tert-Butyl Alcohol      | 250        | 264      | 106   | 63-129 |
| 762-75-4  | Tert-Butyl Formate      | 250        | 143      | 57    | 46-130 |
| 108-88-3  | Toluene                 | 25         | 26.6     | 106   | 80-120 |
| 1330-20-7 | Xylene (total)          | 75         | 82.3     | 110   | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95%  | 79-125% |
| 2037-26-5  | Toluene-D8            | 100% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 83-118% |

\* = Outside of Control Limits.



# Blank Spike Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| V5E132-BS | 5E3157.D | 1  | 09/06/17 | SP | n/a       | n/a        | V5E132           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25, FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40

| CAS No.   | Compound                | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|-------------------------|---------------|-------------|----------|--------|
| 71-43-2   | Benzene                 | 25            | 22.2        | 89       | 81-122 |
| 107-06-2  | 1,2-Dichloroethane      | 25            | 26.4        | 106      | 75-125 |
| 108-20-3  | Di-Isopropyl Ether      | 25            | 25.8        | 103      | 68-123 |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | 1250          | 873         | 70       | 55-126 |
| 64-17-5   | Ethyl Alcohol           | 500           | 258         | 52       | 46-145 |
| 100-41-4  | Ethylbenzene            | 25            | 22.6        | 90       | 81-121 |
| 637-92-3  | Ethyl Tert Butyl Ether  | 25            | 24.3        | 97       | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25            | 22.9        | 92       | 72-117 |
| 91-20-3   | Naphthalene             | 25            | 22.1        | 88       | 63-132 |
| 75-85-4   | Tert-Amyl Alcohol       | 250           | 219         | 88       | 65-124 |
| 994-05-8  | Tert-Amyl Methyl Ether  | 25            | 22.1        | 88       | 73-122 |
| 75-65-0   | Tert-Butyl Alcohol      | 250           | 219         | 88       | 63-129 |
| 762-75-4  | Tert-Butyl Formate      | 250           | 144         | 58       | 46-130 |
| 108-88-3  | Toluene                 | 25            | 21.5        | 86       | 80-120 |
| 1330-20-7 | Xylene (total)          | 75            | 71.4        | 95       | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 108% | 83-118% |

\* = Outside of Control Limits.

6.2.3  
6

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP2004-BS | P52738.D | 1  | 09/08/17 | SP | n/a       | n/a        | VP2004           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-1, FA47290-22

| CAS No.   | Compound       | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|----------------|---------------|-------------|----------|--------|
| 108-88-3  | Toluene        | 25            | 26.1        | 104      | 80-120 |
| 1330-20-7 | Xylene (total) | 75            | 82.0        | 109      | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95%  | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100% | 83-118% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| VB5007-BS | B124448.D | 1  | 09/13/17 | AJ | n/a       | n/a        | VB5007           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33

| CAS No.  | Compound           | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|--------------------|---------------|-------------|----------|--------|
| 108-20-3 | Di-Isopropyl Ether | 25            | 25.0        | 100      | 68-123 |
| 75-85-4  | Tert-Amyl Alcohol  | 250           | 224         | 90       | 65-124 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 79-125% |
| 2037-26-5  | Toluene-D8            | 101% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 105% | 83-118% |

\* = Outside of Control Limits.

6.2.5  
6

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample       | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|----------|----|----------|----|-----------|------------|------------------|
| FA47290-5MS  | P52679.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2000           |
| FA47290-5MSD | P52680.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2000           |
| FA47290-5    | P52661.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2000           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5, FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20

| CAS No.   | Compound                | FA47290-5<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|-------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 71-43-2   | Benzene                 | ND                | 25                 | 23.3       | 93      | 25            | 19.6        | 78*      | 17* | 81-122/14         |
| 107-06-2  | 1,2-Dichloroethane      | 1.2               | 25                 | 24.3       | 92      | 25            | 22.3        | 84       | 9   | 75-125/14         |
| 108-20-3  | Di-Isopropyl Ether      | ND                | 25                 | 25.3       | 101     | 25            | 22.8        | 91       | 10  | 68-123/16         |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND                | 1250               | 968        | 77      | 1250          | 987         | 79       | 2   | 55-126/17         |
| 64-17-5   | Ethyl Alcohol           | ND                | 500                | 367        | 73      | 500           | 394         | 79       | 7   | 46-145/30         |
| 100-41-4  | Ethylbenzene            | ND                | 25                 | 24.7       | 99      | 25            | 19.4        | 78*      | 24* | 81-121/14         |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND                | 25                 | 22.5       | 90      | 25            | 21.0        | 84       | 7   | 71-120/14         |
| 1634-04-4 | Methyl Tert Butyl Ether | ND                | 25                 | 21.9       | 88      | 25            | 21.1        | 84       | 4   | 72-117/14         |
| 91-20-3   | Naphthalene             | ND                | 25                 | 21.1       | 84      | 25            | 21.6        | 86       | 2   | 63-132/25         |
| 75-85-4   | Tert-Amyl Alcohol       | 30.7              | 250                | 245        | 86      | 250           | 258         | 91       | 5   | 65-124/23         |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND                | 25                 | 21.2       | 85      | 25            | 20.9        | 84       | 1   | 73-122/13         |
| 75-65-0   | Tert-Butyl Alcohol      | ND                | 250                | 263        | 105     | 250           | 289         | 116      | 9   | 63-129/27         |
| 762-75-4  | Tert-Butyl Formate      | ND                | 250                | 55.2       | 22*     | 250           | 46.7        | 19*      | 17  | 46-130/33         |
| 108-88-3  | Toluene                 | ND                | 25                 | 23.8       | 95      | 25            | 20.0        | 80       | 17* | 80-120/14         |
| 1330-20-7 | Xylene (total)          | ND                | 75                 | 74.8       | 100     | 75            | 60.8        | 81       | 21* | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS  | MSD  | FA47290-5 | Limits  |
|------------|-----------------------|-----|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98% | 97%  | 94%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 95%  | 87%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 98% | 100% | 105%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98% | 100% | 106%      | 83-118% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample       | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|----------|----|----------|----|-----------|------------|------------------|
| FA47140-2MS  | P52703.D | 1  | 09/07/17 | SP | n/a       | n/a        | VP2002           |
| FA47140-2MSD | P52704.D | 1  | 09/07/17 | SP | n/a       | n/a        | VP2002           |
| FA47140-2    | P52686.D | 1  | 09/06/17 | SP | n/a       | n/a        | VP2002           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-41, FA47290-42, FA47290-43, FA47290-44

| CAS No.   | Compound                | FA47140-2<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|-----------|-------------------------|-------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|-----------|
| 71-43-2   | Benzene                 | 1.0 U             |            | 25         | 21.9    | 88            | 25          | 20.7     | 83  | 6                 | 81-122/14 |
| 107-06-2  | 1,2-Dichloroethane      | 1.0 U             |            | 25         | 20.5    | 82            | 25          | 20.2     | 81  | 1                 | 75-125/14 |
| 108-20-3  | Di-Isopropyl Ether      | 1.0 U             |            | 25         | 22.4    | 90            | 25          | 22.0     | 88  | 2                 | 68-123/16 |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | 50 U              |            | 1250       | 1020    | 82            | 1250        | 1000     | 80  | 2                 | 55-126/17 |
| 64-17-5   | Ethyl Alcohol           | 200 U             |            | 500        | 494     | 99            | 500         | 534      | 107 | 8                 | 46-145/30 |
| 100-41-4  | Ethylbenzene            | 0.81              | J          | 25         | 23.0    | 89            | 25          | 21.7     | 84  | 6                 | 81-121/14 |
| 637-92-3  | Ethyl Tert Butyl Ether  | 2.0 U             |            | 25         | 20.1    | 80            | 25          | 19.9     | 80  | 1                 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.27              | J          | 25         | 20.1    | 79            | 25          | 20.3     | 80  | 1                 | 72-117/14 |
| 91-20-3   | Naphthalene             | 5.0 U             |            | 25         | 21.9    | 88            | 25          | 22.1     | 88  | 1                 | 63-132/25 |
| 75-85-4   | Tert-Amyl Alcohol       | 20 U              |            | 250        | 189     | 76            | 250         | 191      | 76  | 1                 | 65-124/23 |
| 994-05-8  | Tert-Amyl Methyl Ether  | 2.0 U             |            | 25         | 19.8    | 79            | 25          | 19.6     | 78  | 1                 | 73-122/13 |
| 75-65-0   | Tert-Butyl Alcohol      | 20 U              |            | 250        | 299     | 120           | 250         | 282      | 113 | 6                 | 63-129/27 |
| 762-75-4  | Tert-Butyl Formate      | 20 U              |            | 250        | ND      | 0*            | 250         | ND       | 0*  | nc                | 46-130/33 |
| 108-88-3  | Toluene                 | 0.31              | J          | 25         | 22.6    | 89            | 25          | 21.6     | 85  | 5                 | 80-120/14 |
| 1330-20-7 | Xylene (total)          | 3.0 U             |            | 75         | 69.0    | 92            | 75          | 65.3     | 87  | 6                 | 80-126/15 |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA47140-2 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%  | 94%  | 94%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%  | 95%  | 91%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 100% | 100% | 107%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104% | 106% | 111%      | 83-118% |

\* = Outside of Control Limits.

6.3.2  
6

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample        | File ID  | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|----------|-----|----------|----|-----------|------------|------------------|
| FA47290-22MS  | 5E3179.D | 200 | 09/07/17 | SP | n/a       | n/a        | VSE132           |
| FA47290-22MSD | 5E3180.D | 200 | 09/07/17 | SP | n/a       | n/a        | VSE132           |
| FA47290-22    | 5E3160.D | 200 | 09/06/17 | SP | n/a       | n/a        | VSE132           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25, FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40

| CAS No.   | Compound                | FA47290-22<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|-------------------------|--------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 71-43-2   | Benzene                 | 8500               | 5000               | 13500      | 100     | 5000          | 13500       | 100      | 0   | 81-122/14         |
| 107-06-2  | 1,2-Dichloroethane      | 452                | 5000               | 6010       | 111     | 5000          | 6070        | 112      | 1   | 75-125/14         |
| 108-20-3  | Di-Isopropyl Ether      | ND                 | 5000               | 5450       | 109     | 5000          | 5750        | 115      | 5   | 68-123/16         |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND                 | 250000             | 188000     | 75      | 250000        | 195000      | 78       | 4   | 55-126/17         |
| 64-17-5   | Ethyl Alcohol           | ND                 | 100000             | 103000     | 103     | 100000        | 91500       | 92       | 12  | 46-145/30         |
| 100-41-4  | Ethylbenzene            | 1620               | 5000               | 6490       | 97      | 5000          | 6620        | 100      | 2   | 81-121/14         |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND                 | 5000               | 5130       | 103     | 5000          | 5300        | 106      | 3   | 71-120/14         |
| 1634-04-4 | Methyl Tert Butyl Ether | ND                 | 5000               | 4710       | 94      | 5000          | 4900        | 98       | 4   | 72-117/14         |
| 91-20-3   | Naphthalene             | 947                | J 5000             | 6100       | 103     | 5000          | 6420        | 109      | 5   | 63-132/25         |
| 75-85-4   | Tert-Amyl Alcohol       | 6370               | 50000              | 47500      | 82      | 50000         | 47900       | 83       | 1   | 65-124/23         |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND                 | 5000               | 4690       | 94      | 5000          | 4840        | 97       | 3   | 73-122/13         |
| 75-65-0   | Tert-Butyl Alcohol      | ND                 | 50000              | 48900      | 98      | 50000         | 49900       | 100      | 2   | 63-129/27         |
| 762-75-4  | Tert-Butyl Formate      | ND                 | 50000              | 30900      | 62      | 50000         | 33900       | 68       | 9   | 46-130/33         |
| 108-88-3  | Toluene                 | 21000              | E 5000             | 24200      | 64* a   | 5000          | 24200       | 64* a    | 0   | 80-120/14         |
| 1330-20-7 | Xylene (total)          | 17200              | 15000              | 32800      | 104     | 15000         | 33200       | 107      | 1   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA47290-22 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 102% | 100%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 112% | 116%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%  | 99%  | 103%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106% | 106% | 110%       | 83-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

6.3.3

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample        | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|----------|----|----------|----|-----------|------------|------------------|
| FA47220-11MS  | P52750.D | 1  | 09/08/17 | SP | n/a       | n/a        | VP2004           |
| FA47220-11MSD | P52751.D | 1  | 09/08/17 | SP | n/a       | n/a        | VP2004           |
| FA47220-11    | P52748.D | 1  | 09/08/17 | SP | n/a       | n/a        | VP2004           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-1, FA47290-22

| CAS No.   | Compound       | FA47220-11<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------|--------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 108-88-3  | Toluene        | 1.0 U              | 25         | 24.5       | 98      | 25            | 24.5        | 98       | 0   | 80-120/14         |
| 1330-20-7 | Xylene (total) | 3.0 U              | 75         | 76.3       | 102     | 75            | 76.3        | 102      | 0   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA47220-11 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%  | 99%  | 96%        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%  | 97%  | 90%        | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%  | 97%  | 105%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 102% | 106%       | 83-118% |

\* = Outside of Control Limits.

6.3.4  
6

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| FA47359-6MS            | B124461.D | 5  | 09/13/17 | AJ | n/a       | n/a        | VB5007           |
| FA47359-6MSD           | B124462.D | 5  | 09/13/17 | AJ | n/a       | n/a        | VB5007           |
| FA47359-6 <sup>a</sup> | B124450.D | 5  | 09/13/17 | AJ | n/a       | n/a        | VB5007           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33

| CAS No.  | Compound           | FA47359-6<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|----------|--------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 108-20-3 | Di-Isopropyl Ether | 5.0 U             | 125                | 115        | 92      | 125           | 117         | 94       | 2   | 68-123/16         |
| 75-85-4  | Tert-Amyl Alcohol  | 100 U             | 1250               | 1140       | 91      | 1250          | 1160        | 93       | 2   | 65-124/23         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA47359-6 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 99%  | 98%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 102% | 99%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 102% | 103% | 101%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%  | 104% | 101%      | 83-118% |

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

\* = Outside of Control Limits.



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**GC Volatiles**

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**QC Data Summaries****7**

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66703-MB | DD95219.D | 1  | 09/05/17 | AN | 09/05/17  | OP66703    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5

| CAS No.  | Compound          | Result | RL    | MDL   | Units | Q |
|----------|-------------------|--------|-------|-------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.020 | 0.010 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Limits       |
|----------|----------------------|--------------|
| 460-00-4 | 4-Bromofluorobenzene | 113% 63-137% |

7.1.1  
7

## Method Blank Summary

Page 1 of 1

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66704-MB | DD95248.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20, FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25

| CAS No.  | Compound          | Result | RL    | MDL   | Units | Q |
|----------|-------------------|--------|-------|-------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.020 | 0.010 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Limits      |
|----------|----------------------|-------------|
| 460-00-4 | 4-Bromofluorobenzene | 99% 63-137% |

7.12

7

# Method Blank Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66724-MB | DD95285.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40, FA47290-41, FA47290-42, FA47290-43

| CAS No.  | Compound          | Result | RL    | MDL   | Units | Q |
|----------|-------------------|--------|-------|-------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | ND     | 0.020 | 0.010 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Limits       |
|----------|----------------------|--------------|
| 460-00-4 | 4-Bromofluorobenzene | 114% 63-137% |

7.1.3  
7

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66703-BS | DD95217.D | 1  | 09/05/17 | AN | 09/05/17  | OP66703    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5

| CAS No.  | Compound          | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|-------------------|---------------|-------------|----------|--------|
| 106-93-4 | 1,2-Dibromoethane | 0.25          | 0.30        | 120      | 72-134 |

| CAS No.  | Surrogate Recoveries | BSP  | Limits  |
|----------|----------------------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 113% | 63-137% |

7.2.1  
7

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66703-BS2 | DD95218.D | 1  | 09/05/17 | AN | 09/05/17  | OP66703    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5

| CAS No.  | Compound          | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|-------------------|---------------|-------------|----------|--------|
| 106-93-4 | 1,2-Dibromoethane | 0.25          | 0.30        | 120      | 72-134 |

| CAS No.  | Surrogate Recoveries | BSP  | Limits  |
|----------|----------------------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 112% | 63-137% |

\* = Outside of Control Limits.

7.2.2  
7

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66704-BS | DD95246.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20, FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25

| CAS No.  | Compound          | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|-------------------|---------------|-------------|----------|--------|
| 106-93-4 | 1,2-Dibromoethane | 0.25          | 0.29        | 116      | 72-134 |

| CAS No.  | Surrogate Recoveries | BSP  | Limits  |
|----------|----------------------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 104% | 63-137% |

7.2.3  
7

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66704-BS2 | DD95247.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20, FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25

| CAS No.  | Compound          | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|-------------------|---------------|-------------|----------|--------|
| 106-93-4 | 1,2-Dibromoethane | 0.25          | 0.28        | 112      | 72-134 |

| CAS No.  | Surrogate Recoveries | BSP  | Limits  |
|----------|----------------------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 63-137% |

7.2.4  
7

\* = Outside of Control Limits.



# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66724-BS | DD95283.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40, FA47290-41, FA47290-42, FA47290-43

| CAS No.  | Compound          | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|-------------------|---------------|-------------|----------|--------|
| 106-93-4 | 1,2-Dibromoethane | 0.25          | 0.28        | 112      | 72-134 |

| CAS No.  | Surrogate Recoveries | BSP  | Limits  |
|----------|----------------------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 107% | 63-137% |

\* = Outside of Control Limits.

7.2.5  
7

# Blank Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66724-BS2 | DD95284.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40, FA47290-41, FA47290-42, FA47290-43

| CAS No.  | Compound          | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|-------------------|---------------|-------------|----------|--------|
| 106-93-4 | 1,2-Dibromoethane | 0.25          | 0.27        | 108      | 72-134 |

| CAS No.  | Surrogate Recoveries | BSP  | Limits  |
|----------|----------------------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 63-137% |

7.2.6

7

\* = Outside of Control Limits.

# Matrix Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66704-MS | DD95254.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |
| FA47290-8  | DD95253.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20, FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25

| CAS No.  | Compound             | FA47290-8<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Limits |
|----------|----------------------|-------------------|------------|------------|---------|--------|
| 106-93-4 | 1,2-Dibromoethane    | ND                | 0.234      | 0.23       | 98      | 72-134 |
| CAS No.  | Surrogate Recoveries | MS                | FA47290-8  | Limits     |         |        |
| 460-00-4 | 4-Bromofluorobenzene | 89%               | 112%       | 63-137%    |         |        |

7.3.1  
7

\* = Outside of Control Limits.

# Matrix Spike Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66724-MS | DD95287.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |
| FA47290-26 | DD95286.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40, FA47290-41, FA47290-42, FA47290-43

| CAS No.  | Compound          | FA47290-26<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Limits |
|----------|-------------------|--------------------|------------|------------|---------|--------|
| 106-93-4 | 1,2-Dibromoethane | ND                 | 0.238      | 0.26       | 109     | 72-134 |

| CAS No.  | Surrogate Recoveries | MS   | FA47290-26 | Limits  |
|----------|----------------------|------|------------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 104% | 114%       | 63-137% |

7.3.2  
7

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA47290  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66703-MS  | DD95221.D | 1  | 09/05/17 | AN | 09/05/17  | OP66703    | GDD2780          |
| OP66703-MSD | DD95222.D | 1  | 09/05/17 | AN | 09/05/17  | OP66703    | GDD2780          |
| FA47257-1   | DD95220.D | 1  | 09/05/17 | AN | 09/05/17  | OP66703    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-1, FA47290-2, FA47290-3, FA47290-4, FA47290-5

| CAS No.  | Compound          | FA47257-1<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|----------|-------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 106-93-4 | 1,2-Dibromoethane | 0.019 U           | 0.24               | 0.28       | 116     | 0.238         | 0.30        | 126      | 7   | 72-134/28         |

| CAS No.  | Surrogate Recoveries | MS   | MSD  | FA47257-1 | Limits  |
|----------|----------------------|------|------|-----------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 111% | 127% | 116%      | 63-137% |

7.4.1  
7

\* = Outside of Control Limits.

**Duplicate Summary**

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66704-DUP | DD95256.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |
| FA47290-9   | DD95255.D | 1  | 09/05/17 | AN | 09/05/17  | OP66704    | GDD2780          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-6, FA47290-7, FA47290-8, FA47290-9, FA47290-10, FA47290-11, FA47290-12, FA47290-13, FA47290-14, FA47290-15, FA47290-16, FA47290-17, FA47290-18, FA47290-19, FA47290-20, FA47290-21, FA47290-22, FA47290-23, FA47290-24, FA47290-25

| CAS No.  | Compound          | FA47290-9   |    | RPD | Limits |
|----------|-------------------|-------------|----|-----|--------|
|          |                   | DUP<br>ug/l | Q  |     |        |
| 106-93-4 | 1,2-Dibromoethane | ND          | ND | nc  | 28     |

| CAS No.  | Surrogate Recoveries | DUP  | FA47290-9 | Limits  |
|----------|----------------------|------|-----------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 103% | 113%      | 63-137% |

7.5.1  
7

\* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** FA47290  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP66724-DUP | DD95289.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |
| FA47290-27  | DD95288.D | 1  | 09/06/17 | AN | 09/06/17  | OP66724    | GDD2781          |

The QC reported here applies to the following samples:

Method: SW846 8011

FA47290-26, FA47290-27, FA47290-28, FA47290-29, FA47290-30, FA47290-31, FA47290-32, FA47290-33, FA47290-34, FA47290-35, FA47290-36, FA47290-37, FA47290-38, FA47290-39, FA47290-40, FA47290-41, FA47290-42, FA47290-43

| CAS No.  | Compound          | FA47290-27 DUP |   |      |   | RPD | Limits |
|----------|-------------------|----------------|---|------|---|-----|--------|
|          |                   | ug/l           | Q | ug/l | Q |     |        |
| 106-93-4 | 1,2-Dibromoethane | ND             |   | ND   |   | nc  | 28     |

| CAS No.  | Surrogate Recoveries | DUP  | FA47290-27 | Limits  |
|----------|----------------------|------|------------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 110%       | 63-137% |

7.52  
7

\* = Outside of Control Limits.

**APPENDIX B**  
**Field Data Information Sheets**





**Underground Storage Tank Management Division  
Field Data Information Sheet – Monitoring Well Gauging**

44

|                   |                             |   |
|-------------------|-----------------------------|---|
| Date: 08/29/17    | Site ID #: 07960            | Site Name: 1378 - BRACK STORE               |
| County: EDGEFIELD | Project Manager: SCOTT BUCK | Field Personnel: COREY WILSON, TERRY KEENEY |

| Well ID: | Total Well Depth (ft.) | Screened Interval (ft.) | Depth to Free Product (ft.) | Depth to Ground water (ft.) | Free Product Thickness (ft.) | Confirmed with Bailer? | Photos Taken? | Well Pad OK? | Bolts in Well Cover? | Water in Well Vault? |
|----------|------------------------|-------------------------|-----------------------------|-----------------------------|------------------------------|------------------------|---------------|--------------|----------------------|----------------------|
| MW-1     | 44.81                  | UNK                     | -                           | 25.01                       | STEEL                        | YES                    | NO            | YES          | YES                  | NO                   |
| MW-2     | 43.24                  | UNK                     | -                           | 20.28                       | -                            |                        |               |              |                      |                      |
| MW-3     | 39.55                  | 10-40                   | -                           | 26.73                       | -                            |                        |               |              |                      |                      |
| MW-4     | 39.33                  | 10-40                   | -                           | 25.13                       | -                            |                        |               |              |                      |                      |
| MW-5     | 39.56                  | 20-40                   | -                           | 29.03                       | -                            |                        |               |              |                      |                      |
| MW-6     | 34.90                  | 20-35                   | -                           | 24.46                       | -                            |                        |               |              |                      |                      |
| MW-7     | 34.76                  | 20-35                   | -                           | 21.94                       | -                            |                        |               |              |                      |                      |
| MW-8     | 34.92                  | 20-35                   | -                           | 24.37                       | -                            |                        |               |              |                      |                      |
| MW-9     | 35.08                  | 20-35                   | -                           | 23.85                       | -                            |                        |               |              |                      |                      |
| MW-10    | 39.99                  | 25-40                   | -                           | 27.33                       | -                            |                        |               |              |                      |                      |
| MW-11    | 35.07                  | 20-35                   | -                           | 27.68                       | -                            |                        |               |              |                      |                      |
| MW-12    | 34.73                  | 20-35                   | -                           | 28.80                       | -                            |                        |               |              |                      |                      |
| MW-13    | 40.03                  | 25-40                   | -                           | 26.24                       | -                            |                        |               |              |                      |                      |

Notes: All wells gauged on 08/29/17

Signature: *Corey Wilson*



**Underground Storage Tank Management Division  
Field Data Information Sheet - Monitoring Well Gauging**

2/4

Date: 08/22/17 Site ID #: 07960 Site Name: 378 - Tank Stop  
 County: EDGEFIELD Project Manager: Scott Black Field Personnel: Corey Richardson, Terry Kenealy

| Well ID | Total Well Depth (ft.) | Screened Interval (ft.) | Depth to Free Product (ft.) | Depth to Ground water (ft.) | Free Product Thickness (ft.) | Confirmed with Baller? | Photos Taken? | Well Pad OK? | Balls in Well Cover? | Water in Well Vault? |
|---------|------------------------|-------------------------|-----------------------------|-----------------------------|------------------------------|------------------------|---------------|--------------|----------------------|----------------------|
| MW-14   | 39.60                  | 25-40                   | -                           | 30.18                       | -                            | YES                    | NO            | YES          | YES                  | NO                   |
| MW-15   | 39.98                  | 25-40                   | -                           | 29.08                       | -                            |                        |               |              |                      |                      |
| MW-16   | 39.93                  | 25-40                   | -                           | 28.08                       | -                            |                        |               |              |                      |                      |
| MW-17   | 34.83                  | 20-25                   | -                           | 22.39                       | -                            |                        |               |              |                      |                      |
| MW-18   | 35.51                  | 20-35                   | -                           | 19.57                       | -                            |                        |               |              |                      |                      |
| MW-19   | 38.40                  | 25-39                   | -                           | 26.71                       | -                            |                        |               |              |                      |                      |
| MW-20   | 44.86                  | 30-45                   | -                           | 35.76                       | -                            |                        |               |              |                      |                      |
| MW-21   | 39.98                  | 25-40                   | -                           | 25.27                       | -                            |                        |               |              |                      |                      |
| MW-22   | 40.83                  | 25-40                   | -                           | 31.52                       | SPEEN                        |                        |               |              |                      |                      |
| MW-23   | 37.06                  | 22-37                   | -                           | 25.07                       | -                            |                        |               |              |                      |                      |
| MW-24   | 39.86                  | 25-40                   | -                           | 28.49                       | -                            |                        |               |              |                      |                      |
| MW-25   | 39.81                  | 25-40                   | -                           | 28.26                       | -                            |                        |               |              |                      |                      |
| MW-26   | 38.55                  | 23-39                   | -                           | 25.10                       | -                            |                        |               |              |                      |                      |

Notes: \_\_\_\_\_

Signature: *Corey Richardson*



**Underground Storage Tank Management Division  
Field Data Information Sheet - Monitoring Well Gauging**

3/4

Date: 08/29/17 Site ID: 507960 Site Name: 270 TRACK STOP  
 County: EDGEFIELD Project Manager: SCOTT B. C... Field Personnel: C... K...

| Well ID | Total Well Depth (ft.) | Screened Interval (ft.) | Depth to Free Product (ft.) | Depth to Ground water (ft.) | Free Product Thickness (ft.) | Confirmed with Baller? | Photos Taken? | Well Pad OK? | Balls in Well Cover? | Water in Well Vault? |
|---------|------------------------|-------------------------|-----------------------------|-----------------------------|------------------------------|------------------------|---------------|--------------|----------------------|----------------------|
| MW-27   | 39.93                  | 20-35                   | -                           | 24.94                       | -                            | YES                    | NO            | YES          | YES                  | NO                   |
| MW-28   | 39.85                  | 25-40                   | -                           | 24.81                       | -                            |                        |               |              |                      |                      |
| MW-29   | 39.54                  | 25-40                   | -                           | 26.49                       | -                            |                        |               |              |                      |                      |
| MW-30   | 44.83                  | 30-45                   | -                           | 30.11                       | -                            |                        |               |              |                      |                      |
| MW-31   | 43.74                  | 29-44                   | -                           | 30.40                       | -                            |                        |               |              |                      |                      |
| TW-1    | 63.13                  | 58-63                   | -                           | 27.34                       | -                            |                        |               |              |                      | YES                  |
| TW-2    | 80.52                  | 75-80                   | -                           | 26.59                       | -                            |                        |               |              |                      |                      |
| TW-3    | 80.31                  | 75-80                   | -                           | 23.63                       | -                            |                        |               |              |                      |                      |
| TW-4    | 60.41                  | 64-69                   | -                           | 25.31                       | -                            |                        |               |              |                      |                      |
| TW-5    | 58.22                  | 53-58                   | -                           | 28.76                       | -                            |                        |               |              |                      |                      |
| TW-6    | 58.38                  | 53-58                   | -                           | 28.93                       | -                            |                        |               |              |                      |                      |
| TW-7    | 58.81                  | 53-58                   | -                           | 18.92                       | -                            |                        |               |              |                      |                      |
| TW-8    | 58.33                  | 53-58                   | -                           | 26.54                       | -                            |                        |               |              |                      |                      |

Notes:

Signature: *Scott B. C...*



Underground Storage Tank Management Division  
Field Data Information Sheet – Monitoring Well Gauging

4/4

Date: 08/29/17 Site ID #: 07960 Site Name: 378 Truck STOP  
County: EDGEFIELD Project Manager: SCOTT SNICE Field Personnel: COREY BURKHAN, FREDY KEENEY

| Well ID: | Total Well Depth (ft.) | Screened Interval (ft.) | Depth to Free Product (ft.) | Depth to Ground water (ft.) | Free Product Thickness (ft.) | Confirmed with Bailer? | Photos Taken? | Well Pad OK? | Boils in Well Cover? | Water in Well Vault? |
|----------|------------------------|-------------------------|-----------------------------|-----------------------------|------------------------------|------------------------|---------------|--------------|----------------------|----------------------|
| TW-7     | 79.92                  | 75-80                   | -                           | 25.14                       | -                            | YES                    | No            | YES          | YES                  | YES                  |
| 2nd      | 25.00                  | cont                    | -                           | 23.59                       | -                            | ↓                      | ↓             | ↓            | ↓                    | NO                   |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |
|          |                        |                         |                             |                             |                              |                        |               |              |                      |                      |

Notes:

Signature: Corey Burkhan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| Date: <u>8/11/17</u>     | Site ID #: <u>0760</u>             | Site Name: <u>378 Truck Stop</u>                | Field Personnel: <u>COREY W. BUCHANAN + TERRY KENNEDY</u> |
| County: <u>Edgefield</u> | Project Manager: <u>SCOTT BALL</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>28.0</u>                        |

**Quality Assurance**

|  |                     |   |   |  |  |
|--|---------------------|---|---|--|--|
| Meter Name   | Serial #:           | Calibration:                                      |   |  |  |
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>YSI 63</u> | <u>138100013</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | SC: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>YSI 55</u>                       | <u>138100013</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| HANNA (Turbidity)<br><u>HANNA 11002</u>                          | <u>16230C048860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |   |   |   |
|---|---|---|---|
| Well ID: <u>-M0-1</u>   | Well Diameter (ft.): <u>2"</u>                      | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bator <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br><u>NA to NA</u>         | Total Well Depth (TWD) (ft.):<br><u>44.01</u>                           |   |
| Depth to Free Product (DFP) (ft.): <u>-</u>   | Depth to Groundwater (DGW) (ft.): <u>25.01</u>      | Free Product Thickness (ft.): <u>-</u>                                  |   |
| Length of water column<br>(LWC = TWD - DGW) (ft.): <u>19.80</u>   | 1 casing volume (CV = LWC x C) (gals.): <u>3.16</u> | 3 casing volumes (3 x CV) (gals.): <u>9.49</u>                          |   |

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>3.16</u>          | <u>6.33</u>          | <u>9.49</u>          |                      |                      |      |             |
| Time (military)               | <u>0732</u>  | <u>0746</u>          |                      |                      |                      |                      |      | <u>0750</u> |
| PH (a.u.)                     | <u>8.0</u>   | <u>NA</u>            |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>105</u>   |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.50</u> |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>239</u>   |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>0.32</u>  |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

|   |                            |  |                                     |
|---|----------------------------|--|-------------------------------------|
| Sampled By: <u>COREY W. BUCHANAN</u>                                | Sampling Time: <u>0750</u> | Duplicate: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N | If yes, Duplicate Time: _____       |
| Notes: <u>1.5 MINUTE VOL. DRY @ 5 MINUTE / 0.25 GALLONS 1.5 VOL</u> |                            |  |                                     |
|   |                            |  | Signature: <u>COREY W. BUCHANAN</u> |



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

Date: 03/17 Site ID #: 07960 Site Name: 378 truck stop Field Personnel: CORBY V. BUCHANAN + DEBBY KENDRY  
 County: EDGEFIELD Project Manager: SCOTT BALL General Weather Conditions: SUNNY / CLOUDY Ambient Air Temp (°F): ~80

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 23 (pH, Specific Conductivity, Temperature) | <u>130100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 58 (Dissolved Oxygen)                       | <u>130100017</u>    | <u>X</u> or N          |                        |                         |                     |
| HANNA (Turbidity)                               | <u>16030C040860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

Well ID: W-2 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.852 Method of Purging/Sample Collection: X Bailer      Pump

MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): ND to 1ft Total Well Depth (TWD) (ft.): 43.24  
 Private WSW  Public WSW

Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 26.28 Free Product Thickness (ft.): -

Length of water column (LWC = TWD - DGW) (ft.): 16.96 1 casing volume (CV = LWC x C) (gals.): 2.71 3 casing volumes (3 x CV) (gals.): 8.13

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.71</u>          | <u>3.5</u>           | <u>8.13</u>          |                      |                      |      |             |
| Time (military)               | <u>0711</u>  | <u>0718</u>          | <u>0723</u>          |                      |                      |                      |      | <u>0723</u> |
| PH (s.u.)                     | <u>7.83</u>  | <u>7.98</u>          | <u>6.97</u>          |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>343</u>   | <u>342</u>           | <u>345</u>           |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>21.13</u> | <u>26.61</u>         | <u>20.53</u>         |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>257</u>   | <u>71000</u>         | <u>71000</u>         |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>1.67</u>  | <u>0.87</u>          | <u>0.76</u>          |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORBY V. BUCHANAN Sampling Time: 0723 Duplicate: Y or (N) If yes, Duplicate Time: -

Notes: LOWERED VOLUME, TRY @ 3.5 GALLONS Signature: CORBY V. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/19/17 Site ID #: 07960 Site Name: 378 truck stop Field Personnel: Corey M. Buchanan + Tracy Kennedy  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name                                      | Serial #     | Calibration:                                      |   |  |   |
|---|--------------|---|---|--|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | 138100018    | <input checked="" type="checkbox"/> or N          |   |  |   |
| LaMotte (Turbidity)                             | 16030C04E060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: MW-3 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.662 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  IW  RW  Other  Private WSW  Public WSW Screened Interval (ft.): 10 to 40 Total Well Depth (TWD) (ft.): 39.55  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 26.73 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 12.82 1 casing volume (CV = LWC x C) (gals.): 2.05 3 casing volumes (3 x CV) (gals.): 6.15

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 2.05                 | 4.10                 | 6.15                 |                      |                      |      |          |
| Time (military)               | 1455    | 1458                 | 1500                 | 1507                 |                      |                      |      | 1507     |
| PH (s.u.)                     | NM      | NM                   | NM                   | NM                   |                      |                      |      |          |
| Specific Conductivity (µS/cm) | ↓       | ↓                    | ↓                    | ↓                    |                      |                      |      |          |
| Water Temperature (°C)        | ↓       | ↓                    | ↓                    | ↓                    |                      |                      |      |          |
| Turbidity (NTU)               | ↓       | ↓                    | ↓                    | ↓                    |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | ↓       | ↓                    | ↓                    | ↓                    |                      |                      |      |          |

**Sampling Data**

Sampled By: Corey M. Buchanan Sampling Time: 1507 Duplicate:  Y or  N If yes, Duplicate Time: 1250  
 Notes: SHEEN/0002 Dup A from MW-3  
 Signature: Corey M. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 8/17/17     | Site ID #: 67960            | Site Name: 378 Truck Stop                | Field Personnel: Corey W. Anderson + Casey Kennedy |
| County: Edgecombe | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): ~80°                        |

**Quality Assurance**

| Meter Name                                      | Serial #     | Calibration:                                      |   |  |  |
|---|--------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature) | 130100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | 130100013    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)                               | 16030C0VE060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: -110-4   | Well Diameter (ft.): 2"                      | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | Screened Interval (ft.): 10 to 40            | Total Well Depth (TWD) (ft.): 39.33                                     |   |
| <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW  | Depth to Free Product (DFP) (ft.): -         | Depth to Groundwater (DGW) (ft.): 25.13                                 | Free Product Thickness (ft.): -   |
| Length of water column (LYC = TWD - DGW) (ft.): 14.20   | 1 casing volume (CV = LWC x C) (gals.): 2.27 | 3 casing volumes (3 x CV) (gals.): 6.81                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 2.27                 | 4.54                 | 6.81                 |                      |                      |      |          |
| Time (military)               | 0949    | 0953                 |                      |                      |                      |                      |      | 0956     |
| pH (s.u.)                     | 8.06    | 8.09                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 510     | 431                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 22.80   | 20.32                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 63.0    | 71000                |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 4.28    | 1.70                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|   |                     |                      |                                     |
|---|---------------------|----------------------|-------------------------------------|
| Sampled By: Corey W. Anderson               | Sampling Time: 0956 | Duplicates: Y or (N) | If yes, Duplicate Time: -           |
| Notes: <u>Washed Valve, Dry @ 3 gallons</u> |                     |                      |                                     |
|   |                     |                      | Signature: <u>Corey W. Anderson</u> |





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| Date: <u>08/11/17</u>    | Site ID #: <u>07960</u>            | Site Name: <u>398 Truck stop</u>                | Field Personnel: <u>Cory A. Bachman + Kerry Kennedy</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Scott Ball</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>~80°</u>                      |

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 85 (pH, Specific Conductivity, Temperature)<br><u>SSC</u> | <u>138100013</u>    | pH 4.0: <u>Y</u> or N  | pH 7.0: <u>Y</u> or N  | pH 10.0: <u>Y</u> or N  | S.C.: <u>Y</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>SSC</u>                       | <u>138100018</u>    | <u>Y</u> or N          |                        |                         |                     |
| Hanna (Turbidity)<br><u>HANNA 10002</u>                       | <u>16A30C04E060</u> | 0.0 NTU: <u>Y</u> or N | 1.0 NTU: <u>Y</u> or N | 10.0 NTU: <u>Y</u> or N |                     |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: <u>-A0-5</u>   | Well Diameter (ft.): <u>2"</u>                         | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br><u>20 to 40</u>            | Total Well Depth (TWD) (ft.):<br><u>39.56</u>                           |  |
| Depth to Free Product (DFP) (ft.):<br><u>-</u>  | Depth to Groundwater (DGW) (ft.):<br><u>29.03</u>      | Free Product Thickness (ft.):<br><u>-</u>                               |  |
| Length of water column<br>(LWC = TWD - DGW) (ft.):<br><u>10.53</u>  | 1 casing volume (CV = LWC x C) (gals.):<br><u>1.68</u> | 3 casing volumes (3 x CV) (gals.):<br><u>5.04</u>                       |  |

**Purging Data**

|                               | Initial         | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>     | <u>1.68</u>          | <u>3.36</u>          | <u>5.04</u>          |                      |                      |      |             |
| Time (minutes)                | <u>0933</u>     | <u>0939</u>          |                      |                      |                      |                      |      | <u>0941</u> |
| pH (s.u.)                     | <u>9.5</u>      | <u>8.91</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>616</u>      | <u>613</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.00</u>    | <u>18.64</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>&gt;1000</u> | <u>&gt;1000</u>      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>2.50</u>     | <u>2.10</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

|                                       |                            |                     |                                  |
|---------------------------------------|----------------------------|---------------------|----------------------------------|
| Sampled By: <u>Cory A. Bachman</u>    | Sampling Time: <u>0941</u> | Duplicate: Y or (N) | If yes, Duplicate time: <u>-</u> |
| Notes: <u>Washed Well, Day @ 2:35</u> |                            |                     |                                  |
| Signature: <u>Cory A. Bachman</u>     |                            |                     |                                  |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |   |
|-------------------|-----------------------------|--|---|
| Date: 8/31/17     | Site ID #: 02960            | Site Name: 310 Truck Stop                | Field Personnel: Corey M. Bachman + Tracy Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (F): 28.0                        |

**Quality Assurance**

| Meter Name   | Serial #     | Calibration:                                      |   |  |  |
|--|--------------|---|---|--|--|
| YSI 83 (pH, Specific Conductivity, Temperature)<br>556 | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br>530                       | 138100011    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)<br>HACH 10022                        | 16030C090860 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: MW-6   | Well Diameter (ft.): 2"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): 20 to 35                                       | Total Well Depth (TWD) (ft.): 34.90   |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 24.46                                  | Free Product Thickness (ft.): -   |   |
| Length of water column (LWC = TWD - DGW) (ft.): 10.44   | 1 casing volume (CV = LWC x C) (gals.): 1.067                            | 3 casing volumes (3 x CV) (gals.): 5.01                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 1.67                 | 3.34                 | 5.01                 |                      |                      |      |          |
| Time (military)               | 0817    | 0819                 |                      |                      |                      |                      |      | 0821     |
| pH (p.u.)                     | 6.34    | 6.52                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 117     | 111                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 18.36   | 18.79                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 360     | 71000                |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 2.10    | 2.12                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                               |                     |   |                           |
|-------------------------------|---------------------|---|---------------------------|
| Sampled By: Corey M. Bachman  | Sampling Time: 0821 | Duplicate: Y or <input checked="" type="checkbox"/> N | If yes, Duplicate Time: - |
| Notes: 1.0670 Vol, Dry @ 2.25 |                     |   |                           |

Signature: *Corey M. Bachman*



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 6/11/17 Site ID #: 07960 Site Name: 3787 Rock stop Field Personnel: Corey V. Buchanan & Terry Kennedy  
 County: Edgecombe Project Manager: Slott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): 28.0

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>130100013</u>    | pH 4.0: <u>Y</u> or N  | pH 7.0: <u>Y</u> or N  | pH 10.0: <u>Y</u> or N  | S.C.: <u>Y</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>130100013</u>    | <u>Y</u> or N          |                        |                         |                     |
| Hanna (Turbidity)<br><u>HANNA 91002</u>                       | <u>16030C048860</u> | 0.0 NTU: <u>Y</u> or N | 1.0 NTU: <u>Y</u> or N | 10.0 NTU: <u>Y</u> or N |                     |

**Well Information**

Well ID: - MW - 7 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: X Bailer      Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 20 to 35 Total Well Depth (TWD) (ft.): 34.76  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 21.94 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 12.82 1 casing volume (CV = LWC x C) (gals.): 2.005 3 casing volumes (3 x CV) (gals.): 6.015

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.005</u>         | <u>4.010</u>         | <u>6.015</u>         |                      |                      |      |             |
| Time (military)               | <u>0720</u>  | <u>0721</u>          |                      |                      |                      |                      |      | <u>0721</u> |
| pH (p.u.)                     | <u>7.30</u>  | <u>8.05</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>291</u>   | <u>333</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>20.72</u> | <u>21.09</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>19.5</u>  | <u>&gt;1000</u>      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>0.58</u>  | <u>1.58</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Corey V. Buchanan Sampling Time: 0721 Duplicate: Y or (N) If yes, Duplicate Time: -  
 Notes: 0725 LEAKED Vol. dry @ 2 gallons  
 Signature: Corey V. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 390 Truck Stop Field Personnel: CORRY V. BUCHANAN + TERRY KENNELLY  
 County: Edgecombe Project Manager: SCOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration            |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100015</u>    | pH 4.0: <u>X</u> or N  | pH 7.0: <u>X</u> or N  | pH 10.0: <u>X</u> or N  | S.C.: <u>X</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100018</u>    | <u>X</u> or N          |                        |                         |                     |
| LaMotte (Turbidity)<br><u>HACH-1000</u>                       | <u>16430C048060</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>X</u> or N | 10.0 NTU: <u>X</u> or N |                     |

**Well Information**

Well ID: AWB Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: X Bailor    Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 20 to 35 Total Well Depth (TWD) (ft.): 34.92  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 24.37 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 10.55 1 casing volume (CV = LWC x C) (gals.): 1.68 3 casing volumes (3 x CV) (gals.): 5.05

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.68</u>          | <u>3.37</u>          | <u>5.05</u>          |                      |                      |      |             |
| Time (military)               | <u>0722</u>  | <u>0728</u>          | <u>0733</u>          | <u>0738</u>          |                      |                      |      | <u>0738</u> |
| PH (s.u.)                     | <u>8.06</u>  | <u>8.00</u>          | <u>7.71</u>          | <u>7.64</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>600</u>   | <u>505</u>           | <u>505</u>           | <u>480</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>20.42</u> | <u>20.23</u>         | <u>20.25</u>         | <u>20.25</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>739</u>   | <u>&gt;1000</u>      | <u>&gt;1000</u>      | <u>&gt;1000</u>      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>2.70</u>  | <u>2.26</u>          | <u>3.24</u>          | <u>2.62</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY V. BUCHANAN Sampling Time: 0738 Duplicate: Y or (N) If yes, Duplicate Time: -

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 Signature: CORRY V. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 398 truck stop Field Personnel: CORRY N. BUCHANAN + TERRY KEMPER  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny / Cloudy Ambient Air Temp (F): 180

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:          |                       |                        |                    |
|---|---------------------|-----------------------|-----------------------|------------------------|--------------------|
| YSI 83 (pH, Specific Conductivity, Temperature) | <u>138100013</u>    | pH 4.0 <u>X</u> or N  | pH 7.0 <u>X</u> or N  | pH 10.0 <u>X</u> or N  | S.C. <u>X</u> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>138100013</u>    | <u>X</u> or N         |                       |                        |                    |
| Hanna (Turbidity)                               | <u>16230C060860</u> | 0.0 NTU <u>X</u> or N | 1.0 NTU <u>X</u> or N | 10.0 NTU <u>X</u> or N |                    |

**Well Information**

Well ID: - MW - 9 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: X Bailor    Pump  
 MW  JW  RW  Other  Private WSW  Public WSW Screened Interval (ft.): 20 to 35 Total Well Depth (TWD) (ft.): 350  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 23.85 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 11.23 1 casing volume (CV = LWC x C) (gals.): 1.79 3 casing volumes (3 x CV) (gals.): 5.38

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.79</u>          | <u>3.59</u>          | <u>5.38</u>          |                      |                      |      |             |
| Time (military)               | <u>1358</u>  | <u>1402</u>          | <u>1408</u>          | <u>1414</u>          |                      |                      |      | <u>1414</u> |
| pH (s.u.)                     | <u>7.77</u>  | <u>7.39</u>          | <u>7.09</u>          | <u>8.86</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>818</u>   | <u>837</u>           | <u>827</u>           | <u>848</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.25</u> | <u>18.86</u>         | <u>18.64</u>         | <u>19.45</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>25.2</u>  | <u>7100</u>          | <u>7100</u>          | <u>7100</u>          |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>3.02</u>  | <u>3.29</u>          | <u>3.22</u>          | <u>3.41</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY N. BUCHANAN Sampling Time: 1414 Duplicate: Y or (N) If yes, Duplicate Time: -

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 Signature: CORRY N. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| Date: <u>8/20/17</u>     | Site ID #: <u>079160</u>           | Site Name: <u>398 Truck Stop</u>                | Field Personnel: <u>CORRY M. BUCHANAN + TERRY KENNEDY</u> |
| County: <u>EDGEFIELD</u> | Project Manager: <u>SCOTT BALL</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>~80°</u>                        |

**Quality Assurance**

| Meter Name   | Serial #            | Calibration                                       |   |  |   |
|--|---------------------|---|---|--|---|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>YSI 83</u> | <u>138100013</u>    | pH 4.0 <input checked="" type="checkbox"/> or N   | pH 7.0 <input checked="" type="checkbox"/> or N   | pH 10.0 <input checked="" type="checkbox"/> or N   | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>YSI 55</u>                       | <u>138100018</u>    | <input checked="" type="checkbox"/> or N          |   |  |   |
| HANNA (Turbidity)<br><u>HANNA 1002</u>                           | <u>16030C04E860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

|   |   |   |   |
|---|---|---|---|
| Well ID: <u>- NEW -10</u>   | Well Diameter (ft.): <u>2"</u>                      | Conversion Factor (C): 1' well = 0.047, 2' well = 0.16, 4' well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): <u>25 to 40</u>            | Total Well Depth (TWD) (ft.): <u>39.99</u>                              |   |
| Depth to Free Product (DFP) (ft.): <u>-</u>   | Depth to Groundwater (DGW) (ft.): <u>27.33</u>      | Free Product Thickness (ft.): <u>-</u>                                  |   |
| Length of water column (LWC = TWD - DGW) (ft.): <u>12.66</u>  | 1 casing volume (CV = LWC x C) (gals.): <u>2.02</u> | 3 casing volumes (3 x CV) (gals.): <u>6.06</u>                          |   |

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.02</u>          | <u>4.04</u>          | <u>6.06</u>          |                      |                      |      |             |
| Time (military)               | <u>1316</u>  | <u>1323</u>          | <u>1326</u>          | <u>1333</u>          |                      |                      |      | <u>1333</u> |
| pH (s.u.)                     | <u>8.37</u>  | <u>7.77</u>          | <u>7.70</u>          | <u>7.53</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>100</u>   | <u>165</u>           | <u>166</u>           | <u>215</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.06</u> | <u>18.38</u>         | <u>18.63</u>         | <u>18.46</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>21.7</u>  | <u>2100.0</u>        | <u>2100.0</u>        | <u>2100.0</u>        |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>5.48</u>  | <u>5.30</u>          | <u>4.78</u>          | <u>4.53</u>          |                      |                      |      |             |

**Sampling Data**

|                                      |                            |   |                               |
|--------------------------------------|----------------------------|---|-------------------------------|
| Sampled By: <u>CORRY M. BUCHANAN</u> | Sampling Time: <u>1333</u> | Duplicate: Y or <input checked="" type="checkbox"/> N | If yes, Duplicate Time: _____ |
|--------------------------------------|----------------------------|---|-------------------------------|

Notes: \_\_\_\_\_

Signature: CORRY M. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/24/17 Site ID #: 07960 Site Name: 398 TRUCK STOP Field Personnel: CORSEY M. BUCHANAN + TERRY KENNEDY  
 County: EDGEFIELD Project Manager: SCOTT BALL General Weather Conditions: SUNNY/CLOUDY Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>130100018</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 58 (Dissolved Oxygen)                       | <u>130100018</u>    | <u>X</u> or N          |                        |                         |                     |
| HANNA (Turbidity)                               | <u>16230C042860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

Well ID: - MW - 11 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.18, 4" well = 0.652 Method of Purgin/Sample Collection: X Bailer      Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 20 to 35 Total Well Depth (TWD) (ft.): 35.07  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 27.68 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 7.39 1 casing volume (CV = LWC x C) (gals.): 1.018 3 casing volumes (3 x CV) (gals.): 3.54

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.18</u>          | <u>2.36</u>          | <u>3.54</u>          |                      |                      |      |             |
| Time (military)               | <u>1621</u>  | <u>1624</u>          |                      |                      |                      |                      |      | <u>1628</u> |
| pH (s.u.)                     | <u>7.12</u>  | <u>7.06</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>797</u>   | <u>807</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.90</u> | <u>19.13</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>III</u>   | <u>71000</u>         |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>1.65</u>  | <u>1.62</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORSEY M. BUCHANAN Sampling Time: 1628 Duplicate: Y or (N) If yes, Duplicate Time: -

Notes: ODORS LOWERED VEG, ONLY @ 7 GALLONS  
 Signature: CORSEY M. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 07/01/17    | Site ID #: 07400            | Site Name: 398 truck stop                  | Field Personnel: Corey W. Buchanan + Treay Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny / Cloudy | Ambient Air Temp (°F): ~80°                        |

**Quality Assurance**

| Meter Name  | Serial #     | Calibration:                                      |   |  |   |
|---|--------------|---|---|--|---|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>SS-0 | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br>SS-0                       | 138100011    | <input checked="" type="checkbox"/> or N          |   |  |   |
| LaMotte (Turbidity)<br>HA-CAS10001                      | 16630C0VE860 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: -NEW-12  | Well Diameter (ft.): 2"                      | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | Screened Interval (ft.): 20 to 35            | Total Well Depth (TWD) (ft.): 340.73                                    |  |
| <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW  | Depth to Free Product (DFP) (ft.): -         | Depth to Groundwater (DGW) (ft.): 28.80                                 | Free Product Thickness (ft.): -  |
| Length of water column (LWC = TWD - DGW) (ft.): 5.93  | 1 casing volume (CV = LWC x C) (gals.): 0.94 | 3 casing volumes (3 x CV) (gals.): 2.83                                 |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 0.94                 | 1.09                 | 2.03                 |                      |                      |      |          |
| Time (military)               | 1526    | 1529                 | 1539                 |                      |                      |                      |      | 1539     |
| pH (s.u.)                     | 7.45    | 7.40                 | 7.26                 |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 971     | 1030                 | 999                  |                      |                      |                      |      |          |
| Water Temperature (°C)        | 19.98   | 19.53                | 19.59                |                      |                      |                      |      |          |
| Turbidity (NTU)               | 19.7    | 71000                | 71000                |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 1.16    | 0.53                 | 0.66                 |                      |                      |                      |      |          |

**Sampling Data**

|   |                     |                     |                              |
|---|---------------------|---------------------|------------------------------|
| Sampled By: Corey W. Buchanan                               | Sampling Time: 1539 | Duplicate: Y or (N) | If yes, Duplicate Time: -    |
| Notes: 07/01/17, 1539-1540, 1541-1542, 1543-1544, 1545-1546 |                     |                     |                              |
|   |                     |                     | Signature: Corey W. Buchanan |





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |   |
|-------------------|-----------------------------|--|---|
| Date: 8/30/17     | Site ID #: 0940             | Site Name: 398 Truck Stop                | Field Personnel: Corey M. Beckman + Jerry Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny / 120° | Ambient Air Temp (°F): 120°                       |

**Quality Assurance**

|   |              |   |   |  |   |
|---|--------------|---|---|--|---|
| Meter Name                                      | Serial #     | Calibration                                       |   |  |   |
| YSI 83 (pH, Specific Conductivity, Temperature) | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | 138100018    | <input checked="" type="checkbox"/> or N          |   |  |   |
| LaMotte (Turbidity)                             | 16230C0VE060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: MW-13  | Well Diameter (ft.): 2"                      | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> NW <input type="checkbox"/> RW <input type="checkbox"/> Other | Screened Interval (ft.): 25 to 40            | Total Well Depth (TWD) (ft.): 40.03                                     |   |
| <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW  | Depth to Free Product (DFP) (ft.): -         | Depth to Groundwater (DGW) (ft.): 26.21                                 | Free Product Thickness (ft.): -   |
| Length of water column (LWC = TWD - DGW) (ft.): 13.82   | 1 casing volume (CV = LWC x C) (gals.): 2.21 | 3 casing volumes (3 x CV) (gals.): 6.63                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 2.21                 | 4.42                 | 6.63                 |                      |                      |      |          |
| Time (minutes)                | 1550    | 1558                 | 1605                 | 1611                 |                      |                      |      | 1611     |
| PH (p.u.)                     | 7.05    | 7.07                 | 7.28                 | 7.04                 |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 1015    | 1000                 | 993                  | 996                  |                      |                      |      |          |
| Water Temperature (°C)        | 19.57   | 19.30                | 18.95                | 19.03                |                      |                      |      |          |
| Turbidity (NTU)               | 44.0    | 71000                | 71000                | 71000                |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 1.01    | 1.06                 | 1.05                 | 0.77                 |                      |                      |      |          |

**Sampling Data**

|                              |                     |   |                              |
|------------------------------|---------------------|---|------------------------------|
| Sampled By: Corey M. Beckman | Sampling Time: 1611 | Duplicate: <input checked="" type="checkbox"/> or | If yes, Duplicate Time: 1601 |
| Notes: ODS Dup-B from MW-13  |                     |   |                              |
|                              |                     |   | Signature: Corey M. Beckman  |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 8/30/17     | Site ID #: 07960            | Site Name: 378 truck stop                | Field Personnel: Corey M. Buchanan + Tracy Keady |
| County: Edgecombe | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): 28.0                      |

**Quality Assurance**

| Meter Name                                      | Serial #     | Calibration:                                      |   |  |  |
|---|--------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature) | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | SC: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | 138100013    | <input checked="" type="checkbox"/> or N          |   |  |  |
| LaMotte (Turbidity)                             | 16230C048860 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: MW-14  | Well Diameter (ft.): 2"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): 24.75 to 39.75                                 | Total Well Depth (TWD) (ft.): 39.60   |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 30.18                                  | Free Product Thickness (ft.): -   |   |
| Length of water column (LWC = TWD - DGW) (ft.): 9.42  | 1 casing volume (CV = LWC x C) (gals.): 1.50                             | 3 casing volumes (3 x CV) (gals.): 4.50                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 1.50                 | 3.00                 | 4.50                 |                      |                      |      |          |
| Time (minutes)                | 16:47   | 16:50                |                      |                      |                      |                      |      | 16:57    |
| pH (p.u.)                     | 6.49    | 6.54                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 445     | 455                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 17.79   | 17.83                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 25.6    | 71000                |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 0.98    | 0.99                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                                |                      |                     |                           |
|--------------------------------|----------------------|---------------------|---------------------------|
| Sampled By: Corey M. Buchanan  | Sampling Time: 16:57 | Duplicate: Y or (N) | If yes, Duplicate Time: - |
| Notes: LIMITED VOL, DRY @ 2:25 |                      |                     |                           |

Signature: *Corey M. Buchanan*



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 318 + Back St Field Personnel: Cory N. Anderson + Kelly Kennedy  
 County: Edgefield Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration                                       |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>SSO</u> | <u>13B100012</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>SSO</u>                       | <u>13B100012</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| HANNA (Turbidity)<br><u>HANNA 1002</u>                        | <u>16230C0V0060</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

Well ID: -NW-15 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 25 to 40 Total Well Depth (TWD) (ft.): 39.98  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 29.08 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 10.90 1 casing volume (CV = LWC x C) (gals.): 1.74 3 casing volumes (3 x CV) (gals.): 4.70

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.74</u>          | <u>3.04</u>          | <u>4.70</u>          |                      |                      |      |             |
| Time (military)               | <u>1636</u>  | <u>1641</u>          |                      |                      |                      |                      |      | <u>1641</u> |
| PH (p.u.)                     | <u>7.20</u>  | <u>6.91</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>402</u>   | <u>377</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.01</u> | <u>17.90</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>6609</u>  | <u>&gt;1000</u>      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>3.19</u>  | <u>2.32</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory N. Anderson Sampling Time: 1641 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_

Notes: Lowest Vol., Dry @ 2 gallons

Signature: Cory N. Anderson



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/20/17 Site ID #: 87460 Site Name: 378 Truck Stop Field Personnel: Cory N. Buchanan & Kelly Keady  
 County: Edgefield Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:                                     |  |   |   |
|---|---------------------|--|--|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>138100013</u>    | pH 4.0 <input checked="" type="checkbox"/> or N  | pH 7.0 <input checked="" type="checkbox"/> or N  | pH 10.0 <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>138100013</u>    | <input checked="" type="checkbox"/> or N         |  |   |   |
| Hanna (Turbidity)                               | <u>16030C040860</u> | 0.0 NTU <input checked="" type="checkbox"/> or N | 1.0 NTU <input checked="" type="checkbox"/> or N | 10.0 NTU <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: -MO-16 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 25 to 40 Total Well Depth (TWD) (ft.): 39.93  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 28.68 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 11.25 1 casing volume (CV = LWC x C) (gals.): 1080 3 casing volumes (3 x CV) (gals.): 5.40

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.00</u>          | <u>3.60</u>          | <u>5.40</u>          |                      |                      |      |             |
| Time (military)               | <u>1011</u>  | <u>1018</u>          | <u>1022</u>          | <u>1026</u>          |                      |                      |      | <u>1026</u> |
| pH (s.u.)                     | <u>8.08</u>  | <u>7.38</u>          | <u>7.32</u>          | <u>7.05</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>955</u>   | <u>928</u>           | <u>1008</u>          | <u>926</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.41</u> | <u>18.43</u>         | <u>18.08</u>         | <u>18.07</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>90.6</u>  | <u>537</u>           | <u>7100</u>          | <u>7100</u>          |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>1.15</u>  | <u>1.26</u>          | <u>1.41</u>          | <u>1.29</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory N. Buchanan Sampling Time: 1026 Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: 0025  
 Signature: Cory N. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 02/17 Site ID #: 07960 Site Name: 398 Truck Stop Field Personnel: Corry N. Bachman + Kelly Kennedy  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny / Cloudy Ambient Air Temp (°F): 28°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration                                      |  |   |   |
|---|---------------------|--|--|---|---|
| YSI 85 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100013</u>    | pH 4.0 <input checked="" type="checkbox"/> or N  | pH 7.0 <input checked="" type="checkbox"/> or N  | pH 10.0 <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100013</u>    | <input checked="" type="checkbox"/> or N         |  |   |   |
| Hanna (Turbidity)<br><u>HANNA 1002</u>                        | <u>16030C048860</u> | 0.0 NTU <input checked="" type="checkbox"/> or N | 1.0 NTU <input checked="" type="checkbox"/> or N | 10.0 NTU <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: MW-17 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.852 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 20.2 to 35.02 Total Well Depth (TWD) (ft.): 34.83  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 22.39 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 12.44 1 casing volume (CV = LWC x C) (gals.): 1.99 3 casing volumes (3 x CV) (gals.): 5.97

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.99</u>          | <u>3.98</u>          | <u>5.97</u>          |                      |                      |      |             |
| Time (military)               | <u>1755</u>  | <u>1810</u>          | <u>1816</u>          | <u>1825</u>          |                      |                      |      | <u>1826</u> |
| PH (a.u.)                     | <u>12.37</u> | <u>11.67</u>         | <u>11.40</u>         | <u>10.90</u>         |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>390</u>   | <u>224</u>           | <u>100</u>           | <u>100</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>20.27</u> | <u>19.86</u>         | <u>19.67</u>         | <u>19.73</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>44.5</u>  | <u>&gt;1000</u>      | <u>&gt;1000</u>      | <u>&gt;1000</u>      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>2.79</u>  | <u>4.65</u>          | <u>4.09</u>          | <u>3.64</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: Corry N. Bachman Sampling Time: 1925 Duplicate: Y or (N)  If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Signature: Corry N. Bachman



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 8/30/17     | Site ID #: 27960            | Site Name: 370 truck stop                | Field Personnel: Corey M. Buchanan + Tracy Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): 28°                         |

**Quality Assurance**

| Meter Name                                      | Serial #     | Calibration:                                      |   |  |   |
|---|--------------|---|---|--|---|
| YSI 85 (pH, Specific Conductivity, Temperature) | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | 138100013    | <input checked="" type="checkbox"/> or N          |   |  |   |
| Hanna (Turbidity)                               | 16430C04E060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: MW-15  | Well Diameter (ft.): 2"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): 21 to 36                                       | Total Well Depth (TWD) (ft.): 35.51   |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 19.54                                  | Free Product Thickness (ft.): -   |   |
| Length of water column (LWC = TWD - DGW) (ft.): 15.97   | 1 casing volume (CV = LWC x C) (gals.): 2.55                             | 3 casing volumes (3 x CV) (gals.): 7.65                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 2.25    | 2.55                 | 5.10                 | 7.65                 |                      |                      |      |          |
| Time (military)               | 0831    | 0846                 |                      |                      |                      |                      |      | 0852     |
| PH (s.u.)                     | 6.32    | 6.27                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 124     | 138                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 19.77   | 19.16                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 471     | 71000                |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 4.13    | 3.25                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                                       |                     |                     |                              |
|---------------------------------------|---------------------|---------------------|------------------------------|
| Sampled By: Corey M. Buchanan         | Sampling Time: 0852 | Duplicate: Y or (N) | If yes, Duplicate Time: -    |
| Notes: LAMPED vol, dry @ 3.75 gallons |                     |                     |                              |
|                                       |                     |                     | Signature: Corey M. Buchanan |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 398 Truck Stop Field Personnel: Corry N. Buchanan + Tracy Kennedy  
 County: Edgefield Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #:           | Calibration:                                      |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>SS6</u> | <u>138100012</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>SS0</u>                       | <u>138100012</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| HANNA (Turbidity)<br><u>HA182002</u>                          | <u>16030C0VE060</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

Well ID: -new-19 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 24 to 30 Total Well Depth (TWD) (ft.): 38.40  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 26.71 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 11.69 1 casing volume (CV = LWC x C) (gals.): 1.07 3 casing volumes (3 x CV) (gals.): 5.61

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.85</u>  | <u>1.07</u>          | <u>3.21</u>          | <u>5.61</u>          |                      |                      |      |             |
| Time (military)               | <u>0920</u>  | <u>0923</u>          | <u>0932</u>          | <u>0936</u>          |                      |                      |      | <u>0936</u> |
| PH (s.u.)                     | <u>8.89</u>  | <u>8.45</u>          | <u>11.73</u>         | <u>11.67</u>         |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>146</u>   | <u>130</u>           | <u>177</u>           | <u>145</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.25</u> | <u>18.24</u>         | <u>18.15</u>         | <u>18.23</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>201</u>   | <u>71000</u>         | <u>71000</u>         | <u>71000</u>         |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>1.68</u>  | <u>1.79</u>          | <u>1.23</u>          | <u>2.09</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: Corry N. Buchanan Sampling Time: 0936 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 Signature: Corry N. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

|                        |                                    |   |  |
|------------------------|------------------------------------|---|--|
| Date: <u>09/11/17</u>  | Site ID #: <u>07960</u>            | Site Name: <u>370 truck stop</u>                | Field Personnel: <u>CORRY N. BUCHANAN &amp; TERRY KEMERY</u> |
| County: <u>BOYD CO</u> | Project Manager: <u>SCOTT BALL</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>20</u>                             |

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100017</u>    | <u>X</u> or N          |                        |                         |                     |
| HANNA (Turbidity)<br><u>HANNA 1802</u>                        | <u>16230C040060</u> | 0.0 NTU: <u>A</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

|   |   |   |  |
|---|---|---|--|
| Well ID: <u>MW-20</u>   | Well Diameter (ft.): <u>2"</u>                      | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.852 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): <u>30 to 45</u>            | Total Well Depth (TWD) (ft.): <u>48.06</u>                              |  |
| Depth to Free Product (DFP) (ft.): <u>-</u>   | Depth to Groundwater (DGW) (ft.): <u>35.91</u>      | Free Product Thickness (ft.): <u>-</u>                                  |  |
| Length of water column (LWC = TWD - DGW) (ft.): <u>0.95</u>   | 1 casing volume (CV = LWC x C) (gals.): <u>1.43</u> | 3 casing volumes (3 x CV) (gals.): <u>4.29</u>                          |  |

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.575</u> | <u>1.43</u>          | <u>2.86</u>          | <u>4.29</u>          |                      |                      |      |             |
| Time (military)               | <u>0843</u>  | <u>0852</u>          |                      |                      |                      |                      |      | <u>0856</u> |
| pH (s.u.)                     | <u>7.48</u>  | <u>7.22</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>356</u>   | <u>354</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>17.88</u> | <u>17.78</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>523</u>   | <u>7100</u>          |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>3.89</u>  | <u>4.60</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

|   |                            |                            |                                     |
|---|----------------------------|----------------------------|-------------------------------------|
| Sampled By: <u>CORRY N. BUCHANAN</u>      | Sampling Time: <u>0856</u> | Duplicate: Y or <u>(N)</u> | If yes, Duplicate Time: <u>-</u>    |
| Notes: <u>USMP160 Vol. @ 2.15 gallons</u> |                            |                            |                                     |
|   |                            |                            | Signature: <u>CORRY N. BUCHANAN</u> |





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |   |  |
|-------------------|-----------------------------|---|--|
| Date: 8/31/17     | Site ID #: 07960            | Site Name: 390 truck stop                 | Field Personnel: Corey M. Buchanan + Kelly Kennedy |
| County: Edgecombe | Project Manager: Scott Ball | General Weather Conditions: Sunny / Clear | Ambient Air Temp (°F): 80                          |

**Quality Assurance**

| Meter Name   | Serial #    | Calibration:                                      |   |  |  |
|--|-------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>556 | 138100012   | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | SC: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100017   | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)<br>HAU123002                         | 16030C09060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: - new - 21   | Well Diameter (ft.): 2'  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> NW <input type="checkbox"/> SW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): 25' to 40'                                     | Total Well Depth (TWD) (ft.): 39.98  |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 25.27                                  | Free Product Thickness (ft.): -   |  |
| Length of water column (LWC = TWD - DGW) (ft.): 14.71   | 1 casing volume (CV = LWC x C) (gals.): 2.35                             | 3 casing volumes (3 x CV) (gals.): 7.05                                 |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 2.35                 | 4.70                 | 7.05                 |                      |                      |      |          |
| Time (military)               | 0822    | 0830                 |                      |                      |                      |                      |      | 0831     |
| PH (s.u.)                     | 6.51    | 6.55                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 479     | 507                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 19.12   | 19.04                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 71000   | 71000                |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 0.99    | 1.61                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                               |                     |                     |                           |
|-------------------------------|---------------------|---------------------|---------------------------|
| Sampled By: Corey M. Buchanan | Sampling Time: 0831 | Duplicate: Y or (N) | If Yes, Duplicate Time: - |
|-------------------------------|---------------------|---------------------|---------------------------|

Notes: 14.7100 Vol, 12.75 @ 3 gallons

Signature: Corey M. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 398 Truck Stop Field Personnel: CORRY N. BUCHANAN + PERRY KENNEDY  
 County: EDGEFIELD Project Manager: SCOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): 100

**Quality Assurance**

| Motor Name  | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>SSO</u> | <u>38100013</u>     | pH 4.0: <u>X</u> or N  | pH 7.0: <u>X</u> or N  | pH 10.0: <u>X</u> or N  | S.C.: <u>X</u> or N |
| YSI 85 (Dissolved Oxygen)<br><u>SSO</u>                       | <u>138100018</u>    | <u>X</u> or N          |                        |                         |                     |
| HANNA (Turbidity)<br><u>HANNA 9102</u>                        | <u>16030C0VEB60</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>X</u> or N | 10.0 NTU: <u>X</u> or N |                     |

**Well Information**

Well ID: - MW-22 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: X Bailer    Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 25 to 40 Total Well Depth (TWD) (ft.): 40.03  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 31.52 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 8.51 1 casing volume (CV = LWC x C) (gals.): 1.36 3 casing volumes (3 x CV) (gals.): 4.08

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u> | <u>1.36</u>          | <u>2.72</u>          | <u>4.08</u>          |                      |                      |      |             |
| Time (military)               | <u>1548</u> | <u>1550</u>          | <u>1553</u>          |                      |                      |                      |      | <u>1556</u> |
| PH (p.u.)                     | <u>NM</u>   | <u>NM</u>            | <u>NM</u>            |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/l)       |             |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY N. BUCHANAN Sampling Time: 1556 Duplicate: Y or (N) If yes, Duplicate Time: -  
 Notes: USING 90 LITERS DRY @ 3.25 GALLONS SHEEN LOGS, NO PARAMETERS RECORDED  
 Signature: CORRY N. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                          |                                    |   |  |
|--------------------------|------------------------------------|---|--|
| Date: <u>8/30/17</u>     | Site ID #: <u>07960</u>            | Site Name: <u>398 Truck Stop</u>                | Field Personnel: <u>Cory V. Anderson + Terry Kennedy</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Scott Ball</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>180</u>                        |

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                      |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100013</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100017</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)<br><u>HACH 10022</u>                        | <u>16030C0V8860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: <u>- MW-23</u>   | Well Diameter (ft.): <u>2"</u>                         | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br><u>22 to 37</u>            | Total Well Depth (TWD) (ft.):<br><u>37.06</u>                           |  |
| Depth to Free Product (DFP) (ft.):<br><u>-</u>  | Depth to Groundwater (DGW) (ft.):<br><u>25.07</u>      | Free Product Thickness (ft.):<br><u>-</u>                               |  |
| Length of water column<br>(LWC = TWD - DGW) (ft.):<br><u>11.99</u>  | 1 casing volume (CV = LWC x C) (gals.):<br><u>1.91</u> | 3 casing volumes (3 x CV) (gals.):<br><u>5.73</u>                       |  |

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.91</u>          | <u>3.83</u>          | <u>5.73</u>          |                      |                      |      |             |
| Time (military)               | <u>0857</u>  | <u>0859</u>          |                      |                      |                      |                      |      | <u>0900</u> |
| pH (s.u.)                     | <u>6.31</u>  | <u>6.19</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>129</u>   | <u>122</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.72</u> | <u>18.61</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>217</u>   | <u>71000</u>         |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>4.95</u>  | <u>4.53</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

|   |                            |   |                                    |
|---|----------------------------|---|------------------------------------|
| Sampled By: <u>Cory V. Anderson</u>       | Sampling Time: <u>0900</u> | Duplicate: Y or <input checked="" type="checkbox"/> N | If yes, Duplicate Time: <u>-</u>   |
| Notes: <u>removed 100,000 gal. of gas</u> |                            |   |                                    |
|   |                            |   | Signature: <u>Cory V. Anderson</u> |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 378 truck stop Field Personnel: CORRY V. BUCHANAN + REEVE KENNELLY  
 County: EDGEFIELD Project Manager: SCOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): 18.0

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                      |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 85 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100012</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>556</u>                       | <u>138100012</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)<br><u>Hanna 1002</u>                        | <u>16030C048660</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

Well ID: AW-24 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 25 to HD Total Well Depth (TWD) (ft.): 39.06  
 Private WSW  Public WSW Free Product Thickness (ft.): \_\_\_\_\_  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 28.49 1 casing volume (CV = LWC x C) (gals.): 1.01 3 casing volumes (3 x CV) (gals.): 5.43  
 Length of water column (LWC = TWD - DGW) (ft.): 11.37 3 casing volumes (3 x CV) (gals.): 5.43

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.01</u>          | <u>3.03</u>          | <u>5.43</u>          |                      |                      |      |             |
| Time (military)               | <u>1051</u>  | <u>1057</u>          | <u>1102</u>          |                      |                      |                      |      | <u>1102</u> |
| pH (s.u.)                     | <u>7.77</u>  | <u>7.64</u>          | <u>7.35</u>          |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>311</u>   | <u>280</u>           | <u>289</u>           |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.26</u> | <u>18.22</u>         | <u>18.07</u>         |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>71000</u> | <u>71000</u>         | <u>71000</u>         |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>3.61</u>  | <u>2.46</u>          | <u>3.05</u>          |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY V. BUCHANAN Sampling Time: 1102 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: LEASTED Vol, DPT @ 400 gallons Signature: CORRY V. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/10/17 Site ID #: 67960 Site Name: 370 TRUCK STOP Field Personnel: CORSEY M. BUCHANAN + TERRY KENNELLY  
 County: EDGEWATER Project Manager: SLOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): 78°

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration            |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 85 (pH, Specific Conductivity, Temperature) | <u>138100013</u>    | pH 4.0: <u>X</u> or N  | pH 7.0: <u>X</u> or N  | pH 10.0: <u>X</u> or N  | S.C.: <u>X</u> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>138100017</u>    | <u>X</u> or N          |                        |                         |                     |
| HANNA (Turbidity)                               | <u>16030C0VE060</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>X</u> or N | 10.0 NTU: <u>X</u> or N |                     |

**Well Information**

Well ID: -M0-25 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: X Bailer    Pump  
 MW  IW  RW  Other  Private WSW  Public WSW Screened Interval (ft.): 25 to 40 Total Well Depth (TWD) (ft.): 39.81  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 29.26 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 11.55 1 casing volume (CV = LWC x C) (gals.): 1.04 3 casing volumes (3 x CV) (gals.): 5.53

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>1.04</u>          | <u>3.09</u>          | <u>5.53</u>          |                      |                      |      |             |
| Time (military)               | <u>0949</u>  | <u>0952</u>          | <u>0955</u>          |                      |                      |                      |      | <u>0957</u> |
| pH (s.u.)                     | <u>9.02</u>  | <u>9.06</u>          | <u>9.42</u>          |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>347</u>   | <u>385</u>           | <u>387</u>           |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.28</u> | <u>18.31</u>         | <u>18.34</u>         |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>184</u>   | <u>71000</u>         | <u>71000</u>         |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>1.44</u>  | <u>1.29</u>          | <u>1.37</u>          |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORSEY M. BUCHANAN Sampling Time: 0957 Duplicate: Y or (N) If yes, Duplicate Time: -  
 Notes: USED 10L, TR @ 24 gallons Signature: CORSEY M. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 6/30/17      Site ID #: 07960      Site Name: 378 Truck Stop      Field Personnel: Cory U. Anderson + Corey Kenney  
 County: Edgefield      Project Manager: Slott Ball      General Weather Conditions: Sunny/Cloudy      Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name                                      | Serial #:           | Calibration:  |  |  |  |
|---|---------------------|---|--|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>138100013</u>    | pH 4.0: <u>A</u> or N      pH 7.0: <u>X</u> or N      pH 10.0: <u>X</u> or N      S.C.: <u>X</u> or N |  |  |  |
| YSI 55 (Dissolved Oxygen)                       | <u>138100017</u>    | <u>X</u> or N   |  |  |  |
| LaMotte (Turbidity) HA0130002                   | <u>16030C048060</u> | 0.0 NTU: <u>X</u> or N      1.0 NTU: <u>X</u> or N      10.0 NTU: <u>X</u> or N                       |  |  |  |

**Well Information**

Well ID: -M0-24      Well Diameter (ft.): 2"      Conversion Factor (C): 1' well = 0.047, 2' well = 0.16, 4' well = 0.652      Method of Purging/Sample Collection: X Bailer      Pump

MW     IW     RW     Other \_\_\_\_\_      Screened Interval (ft.): 23 to 38      Total Well Depth (TWD) (ft.): 38.55  
 Private WSW     Public WSW

Depth to Free Product (DFP) (ft.): -      Depth to Groundwater (DGW) (ft.): 25.01      Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 13.54      1 casing volume (CV = LWC x C) (gals.): 2.16      3 casing volumes (3 x CV) (gals.): 6.49

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.16</u>          | <u>4.33</u>          | <u>6.49</u>          |                      |                      |      |             |
| Time (minutes)                | <u>1220</u>  | <u>1220</u>          | <u>1233</u>          | <u>1239</u>          |                      |                      |      | <u>1239</u> |
| pH (s.u.)                     | <u>7.05</u>  | <u>6.97</u>          | <u>6.97</u>          | <u>7.14</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>473</u>   | <u>460</u>           | <u>465</u>           | <u>470</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.14</u> | <u>19.50</u>         | <u>18.40</u>         | <u>18.54</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>71000</u> | <u>7600</u>          | <u>7100</u>          | <u>71000</u>         |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>2.21</u>  | <u>2.92</u>          | <u>2.25</u>          | <u>2.26</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory U. Anderson      Sampling Time: 1239      Duplicate: Y or (N)      If yes, Duplicate Time: \_\_\_\_\_

Notes: \_\_\_\_\_

Signature: Cory U. Anderson



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 8/7/17      | Site ID #: 07960            | Site Name: 378 Truck Stop                | Field Personnel: Corey M. Buchanan & Terry Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): 28°                         |

**Quality Assurance**

| Meter Name   | Serial #     | Calibration                                       |   |  |  |
|--|--------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>550 | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100013    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)<br>HAU10002                          | 16230C0VE060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: MW 27  | Well Diameter (ft.): 2"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.852 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): 20.10 to 35.10                                 | Total Well Depth (TWD) (ft.): 39.93   |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 24.94                                  | Free Product Thickness (ft.): -   |   |
| Length of water column (LWC = TWD - DGW) (ft.): 14.99   | 1 casing volume (CV = LWC x C) (gals.): 2.39                             | 3 casing volumes (3 x CV) (gals.): 7.19                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.575   | 2.39                 | 4.79                 | 7.19                 |                      |                      |      |          |
| Time (military)               | 0941    | 0946                 |                      |                      |                      |                      |      | 0953     |
| PH (s.u.)                     | 9.59    | 8.02                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 310     | 316                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 19.45   | 19.62                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 66.4    | 71000                |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 1.91    | 1.37                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                               |                     |                     |                           |
|-------------------------------|---------------------|---------------------|---------------------------|
| Sampled By: Corey M. Buchanan | Sampling Time: 0953 | Duplicate: Y or (N) | If yes, Duplicate Time: - |
|-------------------------------|---------------------|---------------------|---------------------------|

Notes: 100000 Vol., Dry @ 7 gallons

Signature: Corey M. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 398 Truck Stop Field Personnel: Cory U. Bachman + Tracy Kennedy  
 County: Edgefield Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:                                      |   |  |   |
|---|---------------------|---|---|--|---|
| YSI 85 (pH, Specific Conductivity, Temperature) | <u>138100013</u>    | pH 4.0 <input checked="" type="checkbox"/> or N   | pH 7.0 <input checked="" type="checkbox"/> or N   | pH 10.0 <input checked="" type="checkbox"/> or N   | S.C. <input checked="" type="checkbox"/> or N |
| YSI 58 (Dissolved Oxygen)                       | <u>138100017</u>    | <input checked="" type="checkbox"/> or N          |   |  |   |
| Hanna (Turbidity)                               | <u>16a30C0VE060</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: -40-28 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 25 to 40 Total Well Depth (TWD) (ft.): 32.05  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 24.01 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 15.04 1 casing volume (CV = LWC x C) (gals.): 2.40 3 casing volumes (3 x CV) (gals.): 7.20

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.40</u>          | <u>4.80</u>          | <u>7.20</u>          |                      |                      |      |             |
| Time (military)               | <u>0740</u>  | <u>0747</u>          | <u>0754</u>          |                      |                      |                      |      | <u>0824</u> |
| pH (s.u.)                     | <u>6.01</u>  | <u>6.47</u>          | <u>6.46</u>          |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>170</u>   | <u>162</u>           | <u>145</u>           |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.82</u> | <u>18.30</u>         | <u>18.30</u>         |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>606</u>   | <u>71000</u>         | <u>71000</u>         |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>0.92</u>  | <u>1.00</u>          | <u>1.07</u>          |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory U. Bachman Sampling Time: 0824 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_

Notes: LEAKED into DRY @ 7 gallons

Signature: Cory U. Bachman





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 6/5/17 Site ID #: 07960 Site Name: 370 Truck Stop Field Personnel: CORRY W. BUCHANAN + REBEY KENNEDY  
 County: Edgefield Project Manager: SCOTT BALL General Weather Conditions: Sunny Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                     |  |   |   |
|---|---------------------|--|--|---|---|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>130100015</u>    | pH 4.0 <input checked="" type="checkbox"/> or N  | pH 7.0 <input checked="" type="checkbox"/> or N  | pH 10.0 <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>550</u>                       | <u>130100013</u>    | <input checked="" type="checkbox"/> or N         |  |   |   |
| Hanna (Turbidity)<br><u>HANNA 2002</u>                        | <u>162306048860</u> | 0.0 NTU <input checked="" type="checkbox"/> or N | 1.0 NTU <input checked="" type="checkbox"/> or N | 10.0 NTU <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: MO-29 Well Diameter (ft.): 2" Conversion Factor (C): 1' well = 0.047, 2' well = 0.16, 4' well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump

MWV  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 25 to 40 Total Well Depth (TWD) (ft.): 39.54  
 Private WSW  Public WSW

Depth to Free Product (DFP) (ft.): - Depth to Groundwater (D3GW) (ft.): 26.09 Free Product Thickness (ft.): -

Length of water column (LWC = TWD - D3GW) (ft.): 13.05 1 casing volume (CV = LWC x C) (gals.): 2.08 3 casing volumes (3 x CV) (gals.): 6.24

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.08</u>          | <u>2.16</u>          | <u>6.24</u>          |                      |                      |      |             |
| Time (military)               | <u>0801</u>  | <u>0811</u>          |                      |                      |                      |                      |      | <u>0811</u> |
| pH (p.u.)                     | <u>6.45</u>  | <u>7.60</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>359</u>   | <u>341</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>20.86</u> | <u>20.69</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>151</u>   | <u>21000</u>         |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>0.70</u>  | <u>1.40</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY W. BUCHANAN Sampling Time: 0811 Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_

Notes: ODORS LIMITED VOL. DRY @ 3 GALLONS

Signature: CORRY W. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |   |
|-------------------|-----------------------------|--|---|
| Date: 8/30/17     | Site ID #: 07960            | Site Name: 378 truck stop                  | Field Personnel: Corey M. Bachman + Tracy Kennedy |
| County: Edgecombe | Project Manager: Scott Ball | General Weather Conditions: Sunny / Cloudy | Ambient Air Temp (°F): 28.0                       |

**Quality Assurance**

| Meter Name   | Serial #      | Calibration                                       |   |  |   |
|--|---------------|---|---|--|---|
| YSI 83 (pH, Specific Conductivity, Temperature)<br>550 | 138100013     | pH 4.0 <input checked="" type="checkbox"/> or N   | pH 7.0 <input checked="" type="checkbox"/> or N   | pH 10.0 <input checked="" type="checkbox"/> or N   | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100013     | <input checked="" type="checkbox"/> or N          |   |  |   |
| Hanna (Turbidity)<br>HACH 23002                        | 16030C0VE0060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

|   |  |   |   |
|---|--|---|---|
| Well ID: MW-30  | Well Diameter (ft.): 2"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): 30 to 45                                       | Total Well Depth (TWD) (ft.): 44.83   |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 30.11                                  | Free Product Thickness (ft.): -   |   |
| Length of water column (LWC = TWD - DGW) (ft.): 14.72   | 1 casing volume (CV = LWC x C) (gals.): 2.35                             | 3 casing volumes (3 x CV) (gals.): 7.05                                 |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.16    | 2.03                 | 4.70                 | 7.05                 |                      |                      |      |          |
| Time (military)               | 1602    | 1600                 |                      |                      |                      |                      |      | 1613     |
| PH (s.u.)                     | 7.36    | 7.28                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 303     | 810                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 18.96   | 19.03                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 2104    | 7100                 |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 0.69    | 0.65                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|  |                     |                     |                             |
|--|---------------------|---------------------|-----------------------------|
| Sampled By: Corey M. Bachman           | Sampling Time: 1613 | Duplicate: Y or (N) | If yes, Duplicate Time: -   |
| Notes: 0.005 161302 VOLUME @ 4 GALLONS |                     |                     |                             |
|  |                     |                     | Signature: Corey M. Bachman |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 398 truck stop Field Personnel: CORRY N. BUCHANAN + REBEY KEMELTY  
 County: EDGEFIELD Project Manager: SCOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                      |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>SSB</u> | <u>138100013</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>SSB</u>                       | <u>138100013</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| HANNA (Turbidity)<br><u>HANNA 91022</u>                       | <u>16a30cove860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

Well ID: -140 -31 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 29 to 44 Total Well Depth (TWD) (ft.): 43.74  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 30.40 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 13.34 1 casing volume (CV = LWC x C) (gals.): 2.12 3 casing volumes (3 x CV) (gals.): 6.39

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>2.13</u>          | <u>4.26</u>          | <u>6.39</u>          |                      |                      |      |             |
| Time (military)               | <u>1001</u>  | <u>1011</u>          |                      |                      |                      |                      |      | <u>1017</u> |
| PH (s.u.)                     | <u>8.05</u>  | <u>7.85</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>1145</u>  | <u>1140</u>          |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>18.49</u> | <u>18.29</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>233</u>   | <u>71000</u>         |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>1.63</u>  | <u>1.11</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY N. BUCHANAN Sampling Time: 1014 Duplicate:  Y or  N If yes, Duplicate time: \_\_\_\_\_  
 Notes: DDOBS lowered vol, DRY @ 3 gallons  
 Signature: CORRY N. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 6/30/17 Site ID #: 07460 Site Name: 338 truck stop Field Personnel: Cory N. Bachman & Tracy Kenney  
 County: Edgefield Project Manager: SLOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): 28°

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:                                      |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>138100012</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>138100012</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hachler (Turbidity)                             | <u>16030C048860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

Well ID: 1601 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump  
 M/W  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 58 to 63 Total Well Depth (TWD) (ft.): 63.13  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 27.34 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 35.79 1 casing volume (CV = LWC x C) (gals.): 5.72 3 casing volumes (3 x CV) (gals.): 17.07

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>5.72</u>          | <u>11.45</u>         | <u>17.17</u>         |                      |                      |      |             |
| Time (military)               | <u>1414</u>  | <u>1428</u>          | <u>1450</u>          | <u>1502</u>          |                      |                      |      | <u>1502</u> |
| pH (p.u.)                     | <u>8.17</u>  | <u>9.25</u>          | <u>10.18</u>         | <u>8.81</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>363</u>   | <u>362</u>           | <u>386</u>           | <u>386</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>20.01</u> | <u>19.86</u>         | <u>19.84</u>         | <u>20.49</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>73.6</u>  | <u>105</u>           | <u>63.9</u>          | <u>50.9</u>          |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>4.33</u>  | <u>3.36</u>          | <u>1.76</u>          | <u>7.76</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory N. Bachman Sampling Time: 1502 Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: DDGS  
 Signature: Cory N. Bachman



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/20/17 Site ID #: 07910 Site Name: 398 Truck Stop Field Personnel: Corry M. Buchanan & Terry Kennedy  
 County: Edgefield Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): 78°

**Quality Assurance**

| Meter Name  | Serial #:           | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100018</u>    | pH 4.0: <u>✓</u> or N  | pH 7.0: <u>✓</u> or N  | pH 10.0: <u>✓</u> or N  | S.C.: <u>✓</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100018</u>    | <u>✓</u> or N          |                        |                         |                     |
| Hanna (Turbidity)<br><u>HANNA 1002</u>                        | <u>160300048860</u> | 0.0 NTU: <u>✓</u> or N | 1.0 NTU: <u>✓</u> or N | 10.0 NTU: <u>✓</u> or N |                     |

**Well Information**

Well ID: TW-2 Well Diameter (ft.): 2" / 5" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: X Bailer \_\_\_ Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 75 to 80 Total Well Depth (TWD) (ft.): 80.02  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DOW) (ft.): 26.59 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DOW) (ft.): 53.43 1 casing volume (CV = LWC x C) (gals.): 8.54 3 casing volumes (3 x CV) (gals.): 25.63

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>8.54</u>          | <u>17.09</u>         | <u>25.63</u>         |                      |                      |      |             |
| Time (minutes)                | <u>147</u>   | <u>143</u>           |                      |                      |                      |                      |      | <u>1450</u> |
| pH (p.u.)                     | <u>4.28</u>  | <u>6.31</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>259</u>   | <u>271</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>20.52</u> | <u>20.05</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>151</u>   | <u>70.3</u>          |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>3.69</u>  | <u>3.79</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Corry M. Buchanan / Terry Kennedy Sampling Time: 1450 Duplicate: Y or (N) If yes, Duplicate Time: -  
 Notes: LIMITED Vol. DRY @ 1200 gallons  
 Signature: Corry M. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 8/20/17     | Site ID #: 07960            | Site Name: 398 truck stop                | Field Personnel: Corey N. Buchanan + Tracy Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): 28°                         |

**Quality Assurance**

| Meter Name   | Serial #    | Calibration:    |                 |                  |             |
|--|-------------|-----------------|-----------------|------------------|-------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>556 | 138100013   | pH 4.0 ✓ or N   | pH 7.0 ✓ or N   | pH 10.0 ✓ or N   | S.C. ✓ or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100017   | ✓ or N          |                 |                  |             |
| LaMotte (Turbidity)<br>H41420024                       | 16020C09060 | 0.0 NTU. ✓ or N | 1.0 NTU. ✓ or N | 10.0 NTU. ✓ or N |             |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: TWD-3  | Well Diameter (ft.): 2"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | Private WSW <input type="checkbox"/> Public WSW <input type="checkbox"/> | Screened Interval (ft.): 75 to 80                                       | Total Well Depth (TWD) (ft.): 80.31  |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): 23.63                                  | Free Product Thickness (ft.): -   |  |
| Length of water column (LWC = TWD - DGW) (ft.): 56.68   | 1 casing volume (CV = LWC x C) (gals.): 9.06                             | 3 casing volumes (3 x CV) (gals.): 27.18                                |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 9.06                 | 18.12                | 27.18                |                      |                      |      |          |
| Time (military)               | 1342    | 1356                 |                      |                      |                      |                      |      | 1408     |
| PH (s.u.)                     | 8.69    | 9.22                 |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 416     | 291                  |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 18.82   | 18.50                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 6.1     | 327                  |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 0.86    | 2.82                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                                   |                     |                     |                           |
|-----------------------------------|---------------------|---------------------|---------------------------|
| Sampled By: Corey N. Buchanan     | Sampling Time: 1408 | Duplicate: Y or (N) | If yes, Duplicate Time: - |
| Notes: LIMITED QTY, 11.35 gallons |                     |                     |                           |
| Signature: Corey N. Buchanan      |                     |                     |                           |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/30/17 Site ID #: 07960 Site Name: 378 steel shop Field Personnel: CORRY V. BUCHANAN + TERRY KENNEY  
 County: EDGEWATER Project Manager: SLOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80

**Quality Assurance**

| Meter Name                                      | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>138100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>138100013</u>    | <u>X</u> or N          |                        |                         |                     |
| HANNA (Turbidity)                               | <u>16030C048860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

Well ID: TW-4 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.662 Method of Purging/Sample Collection: X Bailer      Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 63 to 68 Total Well Depth (TWD) (ft.): 68.41  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 25.03 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 43.10 1 casing volume (CV = LWC x C) (gals.): 13.78 3 casing volumes (3 x CV) (gals.): 39.09

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>6.89</u>          | <u>13.78</u>         | <u>39.09</u>         |                      |                      |      |          |
| Time (military)               | <u>1311</u>  | <u>1326</u>          |                      |                      |                      |                      |      |          |
| PH (s.u.)                     | <u>7.95</u>  | <u>7.48</u>          |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | <u>323</u>   | <u>304</u>           |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | <u>19.23</u> | <u>18.18</u>         |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | <u>13.9</u>  | <u>27.3</u>          |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | <u>5.32</u>  | <u>4.76</u>          |                      |                      |                      |                      |      |          |

**Sampling Data**

Sampled By: CORRY V. BUCHANAN Sampling Time: 1341 Duplicate: Y or (N) If yes, Duplicate Time: -  
 Notes: WATER ONLY, 12.75 Signature: CORRY V. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| Date: <u>8/30/17</u>     | Site ID #: <u>07460</u>            | Site Name: <u>378 truck stop</u>                | Field Personnel: <u>Cory M. Buchanan &amp; Tracy Kenney</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Scott Ball</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>~80°</u>                          |

**Quality Assurance**

| Meter Name  | Serial #:           | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 58 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100013</u>    | <u>X</u> or N          |                        |                         |                     |
| Hanna (Turbidity)<br><u>HANNA-10002</u>                       | <u>16430C0VE060</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: <u>TW-5</u>  | Well Diameter (ft.): <u>2" / 5"</u>                    | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br><u>53 to 58</u>            | Total Well Depth (TWD) (ft.):<br><u>58.22</u>                           |  |
| Depth to Free Product (DFP) (ft.):<br><u>-</u>  | Depth to Groundwater (DGM) (ft.):<br><u>28.76</u>      | Free Product Thickness (ft.):<br><u>-</u>                               |  |
| Length of water column<br>(LWC = TWD - DGM) (ft.):<br><u>29.46</u>  | 1 casing volume (CV = LWC x C) (gals.):<br><u>4.71</u> | 3 casing volumes (3 x CV) (gals.):<br><u>14.13</u>                      |  |

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>4.71</u>          | <u>4.42</u>          | <u>14.13</u>         |                      |                      |      |             |
| Time (military)               | <u>1533</u>  | <u>1536</u>          |                      |                      |                      |                      |      | <u>1536</u> |
| pH (s.u.)                     | <u>8.92</u>  | <u>8.34</u>          |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>119</u>   | <u>175</u>           |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.24</u> | <u>19.18</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>76.7</u>  | <u>31.7</u>          |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>2.00</u>  | <u>3.24</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

|                                       |                            |                            |                                  |
|---------------------------------------|----------------------------|----------------------------|----------------------------------|
| Sampled By: <u>Cory M. Buchanan</u>   | Sampling Time: <u>1536</u> | Duplicate: <u>Y</u> or (N) | If yes, Duplicate Time: <u>-</u> |
| Notes: <u>LEAKED VOL., DRY @ 5.25</u> |                            |                            |                                  |
| Signature: <u>Cory M. Buchanan</u>    |                            |                            |                                  |





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                         |                                    |   |   |
|-------------------------|------------------------------------|---|---|
| Date: <u>8/30/17</u>    | Site ID #: <u>67960</u>            | Site Name: <u>390 TRUCK STOP</u>                | Field Personnel: <u>CORSEY W. BUCHANAN &amp; REBEY KENNEL</u> |
| County: <u>ROCKFORD</u> | Project Manager: <u>SCOTT BALL</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>~80°</u>                            |

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:           |                        |                         |                     |
|---|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSL 83 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSL 55 (Dissolved Oxygen)<br><u>550</u>                       | <u>138100011</u>    | <u>X</u> or N          |                        |                         |                     |
| LaMotte (Turbidity)<br><u>HANNA 10022</u>                     | <u>16a30cove060</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

|   |   |   |  |
|---|---|---|--|
| Well ID: <u>MWD TW-6</u>  | Well Diameter (ft.): <u>2"</u>                      | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br><u>53 to 58</u>         | Total Well Depth (TWD) (ft.):<br><u>58.30</u>                           |  |
| Depth to Free Product (DFP) (ft.): <u>-</u>   | Depth to Groundwater (DGW) (ft.): <u>28.93</u>      | Free Product Thickness (ft.): <u>-</u>                                  |  |
| Length of water column (LWC = TWD - DGW) (ft.): <u>29.45</u>  | 1 casing volume (CV = LWC x C) (gals.): <u>4.71</u> | 3 casing volumes (3 x CV) (gals.): <u>14.13</u>                         |  |

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol | 2 <sup>nd</sup> Vol | 3 <sup>rd</sup> Vol | 4 <sup>th</sup> Vol | 5 <sup>th</sup> Vol | Post | Sampling    |
|-------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>4.71</u>         | <u>9.42</u>         | <u>14.13</u>        |                     |                     |      |             |
| Time (military)               | <u>1026</u>  | <u>1035</u>         | <u>1042</u>         |                     |                     |                     |      | <u>1042</u> |
| pH (s.u.)                     | <u>8.53</u>  | <u>8.18</u>         |                     |                     |                     |                     |      |             |
| Specific Conductivity (µS/cm) | <u>175</u>   | <u>162</u>          |                     |                     |                     |                     |      |             |
| Water Temperature (°C)        | <u>18.04</u> | <u>18.16</u>        |                     |                     |                     |                     |      |             |
| Turbidity (NTU)               | <u>63.2</u>  | <u>270</u>          |                     |                     |                     |                     |      |             |
| Dissolved Oxygen (mg/L)       | <u>4.32</u>  | <u>4.80</u>         |                     |                     |                     |                     |      |             |

**Sampling Data**

|   |                            |   |                               |
|---|----------------------------|---|-------------------------------|
| Sampled By: <u>CORSEY W. BUCHANAN</u>     | Sampling Time: <u>1042</u> | Duplicate: Y or <input checked="" type="checkbox"/> N | If yes, Duplicate Time: _____ |
| Notes: <u>TRANSFERED Vol, 12/4 @ 6:25</u> |                            |   |                               |
| Signature: <u>CORSEY W. BUCHANAN</u>      |                            |   |                               |



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

Date: 8/29/17 Site ID #: 07960 Site Name: 398 truck stop Field Personnel: CORRY M. BUCHANAN + TERRY KENNEL  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (F): 28.0

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                      |   |  |   |
|---|---------------------|---|---|--|---|
| YSI 85 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>130100018</u>    | pH 4.0 <input checked="" type="checkbox"/> or N   | pH 7.0 <input checked="" type="checkbox"/> or N   | pH 10.0 <input checked="" type="checkbox"/> or N   | SC <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>556</u>                       | <u>130100018</u>    | <input checked="" type="checkbox"/> or N          |   |  |   |
| Hanna (Turbidity)<br><u>HANNA 1000</u>                        | <u>16230C040860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: 72-7 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  NW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 54 to 59 Total Well Depth (TWD) (ft.): 58.21  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): 18.42 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): 40.39 1 casing volume (CV = LWC x C) (gals.): 6.46 3 casing volumes (3 x CV) (gals.): 19.38

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>6.46</u>          | <u>12.92</u>         | <u>19.38</u>         |                      |                      |      |             |
| Time (military)               | <u>1730</u>  | <u>1748</u>          |                      |                      |                      |                      |      | <u>1753</u> |
| pH (s.u.)                     | <u>9.71</u>  | <u>12.33</u>         |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>2584</u>  | <u>5744</u>          |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        | <u>22.47</u> | <u>20.73</u>         |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               | <u>3601</u>  | <u>52.2</u>          |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>5.58</u>  | <u>3.75</u>          |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: CORRY M. BUCHANAN Sampling Time: 1753 Duplicate: Y or (N) If yes, Duplicate Time: -

Notes: LEAKED UO<sub>2</sub>, DEY @ 10 gallons Signature: CORRY M. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |   |
|-------------------|-----------------------------|--|---|
| Date: 8/30/17     | Site ID #: 07960            | Site Name: 378 Spack Shop                  | Field Personnel: Corey N. Beckman + Tracy Keady |
| County: Edgecombe | Project Manager: Scott Ball | General Weather Conditions: Sunny / Cloudy | Ambient Air Temp (°F): 28.0                     |

**Quality Assurance**

| Meter Name   | Serial #    | Calibration:                                      |   |  |  |
|--|-------------|---|---|--|--|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>556 | 138100013   | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | SC: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100012   | <input checked="" type="checkbox"/> or N          |   |  |  |
| LaMotte (Turbidity)<br>H4112002                        | 16030C09060 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |  |   |  |
|---|--|---|--|
| Well ID: MW-11-B  | Well Diameter (ft.): 2"                      | Conversion Factor (C): 1' well = 0.047, 2' well = 0.16, 4' well = 0.652 | Method of Purging/Sample Collection:<br><input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | Screened Interval (ft.): 53 to 58            | Total Well Depth (TWD) (ft.): 58.32                                     |  |
| <input type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW  | Depth to Free Product (DFP) (ft.): -         | Depth to Groundwater (DGM) (ft.): 26.59                                 | Free Product Thickness (ft.): -  |
| Length of water column<br>(LWC = TWD - DGM) (ft.): 31.74  | 1 casing volume (CV = LWC x C) (gals.): 5.07 | 3 casing volumes (3 x CV) (gals.): 15.23                                |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 0.25    | 5.07                 | 10.14                | 15.23                |                      |                      |      |          |
| Time (military)               | 0913    | 0925                 |                      |                      |                      |                      |      | 0945     |
| PH (s.u.)                     | 8.45    | 11.22                |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) | 370     | 1319                 |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        | 18.49   | 18.33                |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               | 294     | 125                  |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       | 6.68    | 4.98                 |                      |                      |                      |                      |      |          |

**Sampling Data**

|                              |                     |   |                           |
|------------------------------|---------------------|---|---------------------------|
| Sampled By: Corey N. Beckman | Sampling Time: 0943 | Duplicate: Y or <input checked="" type="checkbox"/> N | If yes, Duplicate Time: - |
|------------------------------|---------------------|---|---------------------------|

Signature: *Corey N. Beckman*



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/17/17 Site ID #: 07960 Site Name: 378 truck stop Field Personnel: Cory M. Bachman + Tracy Kennedy  
 County: Edgefield Project Manager: SLOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Material Name   | Serial #:            | Calibration:                                     |  |   |   |
|---|----------------------|--|--|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>SSC</u> | <u>138100013</u>     | pH 4.0 <input checked="" type="checkbox"/> or N  | pH 7.0 <input checked="" type="checkbox"/> or N  | pH 10.0 <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>SSO</u>                       | <u>138100013</u>     | <input checked="" type="checkbox"/> or N         |  |   |   |
| LaMotte (Turbidity)<br><u>16630 covered</u>                   | <u>16630 covered</u> | 0.0 NTU <input checked="" type="checkbox"/> or N | 1.0 NTU <input checked="" type="checkbox"/> or N | 10.0 NTU <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: no tw-9 Well Diameter (ft.): 2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): 75 to 80 Total Well Depth (TWD) (ft.): 79.92  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGM) (ft.): 25.14 Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGM) (ft.): 54.78 1 casing volume (CV = LWC x C) (gals.): 8.76 3 casing volumes (3 x CV) (gals.): 26.28

**Purging Data**

|                               | Initial      | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>0.25</u>  | <u>8.76</u>          | <u>17.52</u>         | <u>26.28</u>         |                      |                      |      |             |
| Time (military)               | <u>1142</u>  | <u>1223</u>          | <u>143</u>           | <u>1259</u>          |                      |                      |      | <u>1259</u> |
| pH (s.u.)                     | <u>7.76</u>  | <u>7.44</u>          | <u>6.96</u>          | <u>7.10</u>          |                      |                      |      |             |
| Specific Conductivity (µS/cm) | <u>201</u>   | <u>230</u>           | <u>505</u>           | <u>516</u>           |                      |                      |      |             |
| Water Temperature (°C)        | <u>19.58</u> | <u>18.94</u>         | <u>18.69</u>         | <u>18.89</u>         |                      |                      |      |             |
| Turbidity (NTU)               | <u>100</u>   | <u>737</u>           | <u>61.7</u>          | <u>55.3</u>          |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>4.74</u>  | <u>4.09</u>          | <u>3.84</u>          | <u>3.00</u>          |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory M. Bachman Sampling Time: 1259 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
 Signature: Cory M. Bachman



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/21/17 Site ID #: 07960 Site Name: 390 Truck Stop Field Personnel: Cory W. Beckman + Tracy Kennedy  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name                                      | Serial #:          | Calibration:           |                        |                         |                     |
|---|--------------------|------------------------|------------------------|-------------------------|---------------------|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>138100013</u>   | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>138100017</u>   | <u>X</u> or N          |                        |                         |                     |
| Lafayette (Turbidity)                           | <u>16030C09060</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

Well ID: W501 Well Diameter (I.D.): 6 1/2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Baler  Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): to LMK Total Well Depth (TWD) (ft.): LMK  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): LMK Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial          | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling         |
|-------------------------------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|------------------|
| Volume Purged (gallons)       | <u>5.0</u>       |                      |                      |                      |                      |                      |      |                  |
| Time (military)               | <u>1014/1017</u> |                      |                      |                      |                      |                      |      | <u>1014/1017</u> |
| PH (s.u.)                     | <u>NM</u>        |                      |                      |                      |                      |                      |      |                  |
| Specific Conductivity (µS/cm) | <u>↓</u>         |                      |                      |                      |                      |                      |      |                  |
| Water Temperature (°C)        | <u>↓</u>         |                      |                      |                      |                      |                      |      |                  |
| Turbidity (NTU)               | <u>↓</u>         |                      |                      |                      |                      |                      |      |                  |
| Dissolved Oxygen (mg/L)       | <u>↓</u>         |                      |                      |                      |                      |                      |      |                  |

**Sampling Data**

Sampled By: Cory W. Beckman Sampling Time: 1014/1017 Duplicate:  Y or N If yes, Duplicate Time: 1202  
 Notes: PRE GAC 1014, Dup L FROM PRE GAC  
POST GAC 1017

Signature: Cory W. Beckman



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| Date: <u>8/31/17</u>     | Site ID #: <u>07960</u>            | Site Name: <u>378 Truck Stop</u>                | Field Personnel: <u>Cosley N. Buchanan + Casey Kenney</u> |
| County: <u>Edgefield</u> | Project Manager: <u>Scott Ball</u> | General Weather Conditions: <u>Sunny / Warm</u> | Ambient Air Temp (°F): <u>~80</u>                         |

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                      |   |  |  |
|---|---------------------|---|---|--|--|
| YSI 85 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100013</u>    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100013</u>    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)<br><u>HACH 2002</u>                         | <u>16230C0VE860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |   |   |  |
|---|---|---|--|
| Well ID: <u>SW-2</u>  | Well Diameter (ft.): <u>6 1/2"</u>              | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump |
| <input type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br>to <u>unk</u>       | Test Well Depth (TWD) (ft.):<br><u>unknown</u>                          | Free Product Thickness (ft.):<br>-   |
| Depth to Free Product (DFP) (ft.):<br>-   | Depth to Groundwater (DGW) (ft.):<br><u>unk</u> | Free Product Thickness (ft.):<br>-                                      |  |
| Length of water column<br>(LWC = TWD - DGW) (ft.):<br>-   | 1 casing volume (CV = LWC x C) (gals.):<br>-    | 3 casing volumes (3 x CV) (gals.):<br>-                                 |  |

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1230</u> |                      |                      |                      |                      |                      |      | <u>1230</u> |
| PH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>↓</u>    |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

|                                       |                            |   |                               |
|---------------------------------------|----------------------------|---|-------------------------------|
| Sampled By: <u>Cosley N. Buchanan</u> | Sampling Time: <u>1230</u> | Duplicate: Y or <input checked="" type="checkbox"/> N | If Yes, Duplicate Time: _____ |
| Notes: <u>Unknown Hwy 378 East</u>    |                            |   |                               |
| Signature: <u>Cosley N. Buchanan</u>  |                            |   |                               |



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

Date: 8/3/17 Site ID #: 07960 Site Name: 378 truck stop Field Personnel: Cosy M. Buchanan & Kelly Kennedy  
 County: Edgefield Project Manager: Slott Ball General Weather Conditions: Sunny Ambient Air Temp (°F): ~80

**Quality Assurance**

| Meter Name   | Serial #            | Calibration:           |                        |                         |                   |
|--|---------------------|------------------------|------------------------|-------------------------|-------------------|
| YSL85 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | SC: <u>A</u> or N |
| YSL 55 (Dissolved Oxygen)<br><u>550</u>                      | <u>138100017</u>    | <u>X</u> or N          |                        |                         |                   |
| HANNA (Turbidity)<br><u>HANNA 1002</u>                       | <u>16030C0V0860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                   |

**Well Information**

Well ID: usw-3 Well Diameter (ft.): 6.25 Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer X Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ Total Well Depth (TWD) (ft.): unk  
 Private WSW  Public WSW \_\_\_\_\_ to unk  
 Depth to Free Product (DFF) (ft.): - Depth to Groundwater (DGW) (ft.): unk Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1249</u> |                      |                      |                      |                      |                      |      | <u>1249</u> |
| pH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>V</u>    |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Cosy M. Buchanan Sampling Time: 1249 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: 344 Hwy 378 EAST Signature: Cosy M. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet – Sampling**

**Site Information**

|                   |                             |  |   |
|-------------------|-----------------------------|--|---|
| Date: 8/19/17     | Site ID #: 07960            | Site Name: 378 truck stop                | Field Personnel: Corey N. Bachman + Tracy Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): 80                         |

**Quality Assurance**

| Meter Name   | Serial #     | Calibration:    |                 |                  |              |
|--|--------------|-----------------|-----------------|------------------|--------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>550 | 138100013    | pH 4.0: / or N  | pH 7.0: / or N  | pH 10.0: / or N  | S.C.: / or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100017    | / or N          |                 |                  |              |
| Hachette (Turbidity)<br>HACHETTE                       | 16230C048860 | 0.0 NTU: / or N | 1.0 NTU: / or N | 10.0 NTU: / or N |              |

**Well Information**

|   |   |   |  |
|---|---|---|--|
| Well ID: W-14   | Well Diameter (ft.): 6"±  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.10, 4" well = 0.652 | Method of Purging/Sample Collection: Bailer / Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.): to W/L   | Total Well Depth (TWD) (ft.): W/L                  |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): W/L   | Free Product Thickness (ft.): -   |  |
| Length of water column (LWC = TWD - DGW) (ft.): -   | 1 casing volume (CV = LWC x C) (gals.): -   | 3 casing volumes (3 x CV) (gals.): -                                    |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 5.0     |                      |                      |                      |                      |                      |      |          |
| Time (military)               | 1311    |                      |                      |                      |                      |                      |      | 1311     |
| PH (s.u.)                     | NM      |                      |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) |         |                      |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        |         |                      |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               |         |                      |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       |         |                      |                      |                      |                      |                      |      |          |

**Sampling Data**

|                              |                     |                     |                             |
|------------------------------|---------------------|---------------------|-----------------------------|
| Sampled By: Corey N. Bachman | Sampling Time: 1311 | Duplicate: Y or (N) | If yes, Duplicate Time: -   |
| Notes: 752 Hwy 378 EAST      |                     |                     |                             |
|                              |                     |                     | Signature: Corey N. Bachman |





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 6/19/17 Site ID #: 07960 Site Name: 378 East St Field Personnel: Corry N. Buchanan & Tracy Kennedy  
 County: Edgefield Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #           | Calibration                                       |   |  |  |
|---|--------------------|---|---|--|--|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100013</u>   | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>138100013</u>   | <input checked="" type="checkbox"/> or N          |   |  |  |
| HANNA (Turbidity)<br><u>HA0130002</u>                         | <u>16030000860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

Well ID: Ww-5 Well Diameter (ft.): 6.25" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ to unk Total Well Depth (TWD) (ft.): 260  
 Private WSW  Public WSW Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): unk Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1256</u> |                      |                      |                      |                      |                      |      | <u>1256</u> |
| PH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       |             |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Corry N. Buchanan Sampling Time: 1256 Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: 745 Hwy 378 EAST Signature: Corry N. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/31/17 Site ID #: 07960 Site Name: 370 TRUCK STOP Field Personnel: COREY N. BUCHANAN + REBEY KENNEDY  
 County: EDGEFIELD Project Manager: SCOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name   | Serial #:           | Calibration:           |                        |                         |                     |
|--|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSL83 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100013</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 56 (Dissolved Oxygen)<br><u>556</u>                      | <u>138100013</u>    | <u>X</u> or N          |                        |                         |                     |
| LaMotte (Turbidity)<br><u>H40110002</u>                      | <u>16230C090860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

Well ID: W-6 Well Diameter (ft.): 6" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): to W/L Total Well Depth (TWD) (ft.): 400  
 Private WSW  Public WSW Free Product Thickness (ft.): \_\_\_\_\_  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGM) (ft.): 39 Free Product Thickness (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGM) (ft.): ✓ 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

**Purging Data**

|                               | Initial    | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling  |
|-------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-----------|
| Volume Purged (gallons)       | <u>0.0</u> |                      |                      |                      |                      |                      |      |           |
| Time (military)               | <u>NS</u>  |                      |                      |                      |                      |                      |      | <u>NS</u> |
| PH (s.u.)                     | <u>NM</u>  |                      |                      |                      |                      |                      |      |           |
| Specific Conductivity (µS/cm) |            |                      |                      |                      |                      |                      |      |           |
| Water Temperature (°C)        |            |                      |                      |                      |                      |                      |      |           |
| Turbidity (NTU)               |            |                      |                      |                      |                      |                      |      |           |
| Dissolved Oxygen (mg/L)       | <u>✓</u>   |                      |                      |                      |                      |                      |      |           |

**Sampling Data**

Sampled By: COREY N. BUCHANAN Sampling Time: NS Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: NOT SAMPLED, POWER TURNED OFF, VACANT HOME.  
741 Hwy 370 EAST  
 Signature: COREY N. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |   |   |
|-------------------|-----------------------------|---|---|
| Date: 8/31/17     | Site ID #: 67960            | Site Name: 378 Tank STP                 | Field Personnel: Corey N. Bachman + Terry Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Clear | Ambient Air Temp (°F): 78°                        |

**Quality Assurance**

| Meter Name                                       | Serial #     | Calibration                                       |   |  |  |
|--|--------------|---|---|--|--|
| YSI 550 (pH, Specific Conductivity, Temperature) | 138100013    | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C.: <input checked="" type="checkbox"/> or N |
| YSI 550 (Dissolved Oxygen)                       | 138100018    | <input checked="" type="checkbox"/> or N          |   |  |  |
| Hanna (Turbidity)                                | 16030C0VE860 | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |  |

**Well Information**

|   |   |   |   |
|---|---|---|---|
| Well ID: WSW 7  | Well Diameter (ft.): 6.25"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: Gator <input checked="" type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br>to unk                                      | Total Well Depth (TWD) (ft.): unk   |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): unk   | Free Product Thickness (ft.): -   |   |
| Length of water column (LWC = TWD - DGW) (ft.): -   | 1 casing volume (CV = LWC x C) (gals.): -   | 3 casing volumes (3 x CV) (gals.): -                                    |   |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 5.0     |                      |                      |                      |                      |                      |      |          |
| Time (military)               | 1031    |                      |                      |                      |                      |                      |      | 1031     |
| PH (s.u.)                     | NM      |                      |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) |         |                      |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        |         |                      |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               |         |                      |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       |         |                      |                      |                      |                      |                      |      |          |

**Sampling Data**

|                              |                     |                     |                             |
|------------------------------|---------------------|---------------------|-----------------------------|
| Sampled By: Corey N. Bachman | Sampling Time: 1031 | Duplicate: Y or (N) | If yes, Duplicate Time: -   |
| Notes: 0719 Hwy 378, VFD     |                     |                     |                             |
|                              |                     |                     | Signature: Corey N. Bachman |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/3/17 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: CORRY M. RICHMOND + TERRY KEMLEY  
 County: EDGEFIELD Project Manager: SCOTT GALL General Weather Conditions: Sunny / Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                     |  |   |   |
|---|---------------------|--|--|---|---|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>130100013</u>    | pH 4.0 <input checked="" type="checkbox"/> or N  | pH 7.0 <input checked="" type="checkbox"/> or N  | pH 10.0 <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>530</u>                       | <u>130100011</u>    | <input checked="" type="checkbox"/> or N         |  |   |   |
| HANNA (Turbidity)<br><u>HANNA 2002</u>                        | <u>16230C04E860</u> | 0.0 NTU <input checked="" type="checkbox"/> or N | 1.0 NTU <input checked="" type="checkbox"/> or N | 10.0 NTU <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: WSW-B Well Diameter (ft.): 6.25" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Boiler  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ to unk Total Well Depth (TWD) (ft.): unk  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): unk Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): ✓ 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial         | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling        |
|-------------------------------|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-----------------|
| Volume Purged (gallons)       | <u>3.0</u>      |                      |                      |                      |                      |                      |      |                 |
| Time (military)               | <u>1047/051</u> |                      |                      |                      |                      |                      |      | <u>1047/051</u> |
| pH (s.u.)                     | <u>NM</u>       |                      |                      |                      |                      |                      |      |                 |
| Specific Conductivity (µS/cm) |                 |                      |                      |                      |                      |                      |      |                 |
| Water Temperature (°C)        |                 |                      |                      |                      |                      |                      |      |                 |
| Turbidity (NTU)               |                 |                      |                      |                      |                      |                      |      |                 |
| Dissolved Oxygen (mg/L)       | <u>✓</u>        |                      |                      |                      |                      |                      |      |                 |

**Sampling Data**

Sampled By: CORRY M. RICHMOND Sampling Time: 1047/1051 Duplicate:  Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: 724 Hwy 378 East WSW-B (PRE) @ 1047  
WSW-B (POST) @ 1051  
Sampled prior post GAC Signature: CORRY M. RICHMOND



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 6/1/17 Site ID #: 07960 Site Name: 378 Truck Stop Field Personnel: Cory A. Bachman + Tracy Kennedy  
 County: Edgefield Project Manager: Slott Ball General Weather Conditions: Sunny / Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name   | Serial #:           | Calibration:           |                        |                         |                     |
|--|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSU63 (pH, Specific Conductivity, Temperature)<br><u>556</u> | <u>138100013</u>    | pH 4.0: <u>X</u> or N  | pH 7.0: <u>X</u> or N  | pH 10.0: <u>X</u> or N  | S.C.: <u>X</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>556</u>                      | <u>138100017</u>    | <u>X</u> or N          |                        |                         |                     |
| LaMotte (Turbidity)<br><u>HA0130002</u>                      | <u>16a30c0v8860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>X</u> or N | 10.0 NTU: <u>X</u> or N |                     |

**Well Information**

Well ID: WSW-9 Well Diameter (ft.): 6.25" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer  Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): to WTK Total Well Depth (TWD) (ft.): 53  
 Private WSW  Public WSW  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): unk Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>510</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1101</u> |                      |                      |                      |                      |                      |      | <u>1101</u> |
| pH (s.u.)                     | <u>U/M</u>  |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       |             |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Cory A. Bachman Sampling Time: 1101 Duplicate: Y or (N)  If yes, Duplicate Time: \_\_\_\_\_  
 Notes: 71 FAULKNER NORTHEAST ROAD  
OWNER DRILLED NEW WELL BEHIND WSW-9/TD-140 DO NOT SAMPLE NEW WELL  
 Signature: Cory A. Bachman



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |  |
|-------------------|-----------------------------|--|--|
| Date: 8/30/17     | Site ID #: 67960            | Site Name: 378 truck stop                | Field Personnel: Corey M. Anderson + Casey Kennedy |
| County: Edgefield | Project Manager: Scott Ball | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): 28°                         |

**Quality Assurance**

| Meter Name   | Serial #     | Calibration:    |                 |                  |              |
|--|--------------|-----------------|-----------------|------------------|--------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>550 | 138100012    | pH 4.0: / or N  | pH 7.0: / or N  | pH 10.0: / or N  | S.C.: / or N |
| YSI 55 (Dissolved Oxygen)<br>550                       | 138100012    | / or N          |                 |                  |              |
| Hanna (Turbidity)<br>HAUCL1002                         | 16030C048860 | 0.0 NTU: / or N | 1.0 NTU: / or N | 10.0 NTU: / or N |              |

**Well Information**

|  |   |   |  |
|--|---|---|--|
| Well ID: ugw-10  | Well Diameter (ft.): 2"                   | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br>Bailer <input type="checkbox"/> Pump <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other _____<br><input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br>to unk        | Total Well Depth (TWD) (ft.): unk                                       |  |
| Depth to Free Product (DFP) (ft.): -   | Depth to Groundwater (DGW) (ft.): unk     | Free Product Thickness (ft.): -   |  |
| Length of water column (LWC = TWD - DGW) (ft.): unk  | 1 casing volume (CV = LWC x C) (gals.): - | 3 casing volumes (3 x CV) (gals.): -                                    |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 5.0     |                      |                      |                      |                      |                      |      |          |
| Time (military)               | 1111    |                      |                      |                      |                      |                      |      | 1111     |
| PH (s.u.)                     | NM      |                      |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) |         |                      |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        |         |                      |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               |         |                      |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       |         |                      |                      |                      |                      |                      |      |          |

**Sampling Data**

|                               |                     |                     |                           |
|-------------------------------|---------------------|---------------------|---------------------------|
| Sampled By: Corey M. Anderson | Sampling Time: 1111 | Duplicate: Y or (N) | If yes, Duplicate Time: - |
|-------------------------------|---------------------|---------------------|---------------------------|

Notes: 1st Sampled Mastered ROMO  
Signature: Corey M. Anderson



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/31/17 Site ID #: 07960 Site Name: 370 truck stop Field Personnel: COREY W. BUCHANAN + REBEKAH KENDRICK  
 County: EDGEFIELD Project Manager: SLOTT BALL General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name                                      | Serial #:          | Calibration:                                     |  |   |   |
|---|--------------------|--|--|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | <u>13B100012</u>   | pH 4.0 <input checked="" type="checkbox"/> or N  | pH 7.0 <input checked="" type="checkbox"/> or N  | pH 10.0 <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)                       | <u>13B100012</u>   | <input checked="" type="checkbox"/> or N         |  |   |   |
| HANNA (Turbidity)                               | <u>16A30C09060</u> | 0.0 NTU <input checked="" type="checkbox"/> or N | 1.0 NTU <input checked="" type="checkbox"/> or N | 10.0 NTU <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: W20-11 Well Diameter (ft.): 6"± Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailer  Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ Total Well Depth (TWD) (ft.): unk  
 Private WSW  Public WSW \_\_\_\_\_ to unk  
 Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): unk Free Product Thickness (ft.): -  
 Length of water column (LYC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1123</u> |                      |                      |                      |                      |                      |      | <u>1123</u> |
| PH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       |             |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: COREY W. BUCHANAN Sampling Time: 1123 Duplicate: Y or  N If yes, Duplicate Time: \_\_\_\_\_  
 Notes: 66 PARKWAY MOUNTAIN ROAD Signature: COREY W. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                           |                                    |   |  |
|---------------------------|------------------------------------|---|--|
| Date: <u>8/24/17</u>      | Site ID #: <u>07960</u>            | Site Name: <u>398 truck stop</u>                | Field Personnel: <u>Cory N. Buchanan + Tracy Kennedy</u> |
| County: <u>Dorchester</u> | Project Manager: <u>Scott Ball</u> | General Weather Conditions: <u>Sunny/Cloudy</u> | Ambient Air Temp (°F): <u>~80</u>                        |

**Quality Assurance**

| Meter Name   | Serial #            | Calibration:           |                        |                         |                     |
|--|---------------------|------------------------|------------------------|-------------------------|---------------------|
| YSLE3 (pH, Specific Conductivity, Temperature)<br><u>550</u> | <u>138100018</u>    | pH 4.0: <u>A</u> or N  | pH 7.0: <u>A</u> or N  | pH 10.0: <u>A</u> or N  | S.C.: <u>A</u> or N |
| YSI 55 (Dissolved Oxygen)<br><u>550</u>                      | <u>138100018</u>    | <u>X</u> or N          |                        |                         |                     |
| LaMotte (Turbidity)<br><u>H64350023</u>                      | <u>16030C090860</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>A</u> or N | 10.0 NTU: <u>A</u> or N |                     |

**Well Information**

|   |   |   |   |
|---|---|---|---|
| Well ID: <u>W2W-12</u>  | Well Diameter (ft.): <u>2"</u>  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection:<br><u>Bailer</u> <input checked="" type="checkbox"/> <u>Pump</u> |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Other _____ | <input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br>to <u>unk</u>                               | Total Well Depth (TWD) (ft.): <u>unk</u>  |
| Depth to Free Product (DFP) (ft.): <u>-</u>   | Depth to Groundwater (DGW) (ft.): <u>unk</u>  | Free Product Thickness (ft.): <u>-</u>                                  |   |
| Length of water column (LWC = TWD - DGW) (ft.): <u>unk</u>  | 1 casing volume (CV = LWC x C) (gals.): <u>-</u>                                    | 3 casing volumes (3 x CV) (gals.): <u>-</u>                             |   |

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1132</u> |                      |                      |                      |                      |                      |      | <u>1132</u> |
| PH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       |             |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

|   |                            |                            |                                    |
|---|----------------------------|----------------------------|------------------------------------|
| Sampled By: <u>Cory N. Buchanan</u>     | Sampling Time: <u>1132</u> | Duplicate: Y or <u>(N)</u> | If yes, Duplicate Time: <u>-</u>   |
| Notes: <u>664 FANLIER MOUNTAIN ROAD</u> |                            |                            |                                    |
|   |                            |                            | Signature: <u>Cory N. Buchanan</u> |





**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

|                   |                             |  |   |
|-------------------|-----------------------------|--|---|
| Date: 8/31/17     | Site ID #: 07960            | Site Name: 370 TRUCK STOP                | Field Personnel: COREY N. BUCHANAN + PERRY KENNELLY |
| County: Edgecombe | Project Manager: SCOTT BALL | General Weather Conditions: Sunny/Cloudy | Ambient Air Temp (°F): ~80°                         |

**Quality Assurance**

| Meter Name   | Serial #     | Calibration:    |                 |                  |              |
|--|--------------|-----------------|-----------------|------------------|--------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br>556 | 130100012    | pH 4.0: / or N  | pH 7.0: / or N  | pH 10.0: / or N  | S.C.: / or N |
| YSI 65 (Dissolved Oxygen)<br>556                       | 130100012    | / or N          |                 |                  |              |
| HANNA HI91421 (Turbidity)                              | 16030C048860 | 0.0 NTU: / or N | 1.0 NTU: / or N | 10.0 NTU: / or N |              |

**Well Information**

|   |   |   |  |
|---|---|---|--|
| Well ID: 69W-13   | Well Diameter (ft.): 6.25"  | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: Boiler <input checked="" type="checkbox"/> Pump |
| <input checked="" type="checkbox"/> MW <input type="checkbox"/> JW <input type="checkbox"/> RW <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Private WSW <input type="checkbox"/> Public WSW | Screened Interval (ft.):<br>to unknown                                  | Total Well Depth (TWD) (ft.): unknown  |
| Depth to Free Product (DFP) (ft.): -  | Depth to Groundwater (DGW) (ft.): unknown   | Free Product Thickness (ft.): -   |  |
| Length of water column (LWC = TWD - DGW) (ft.): -   | 1 casing volume (CV = LWC x C) (gals.): -   | 3 casing volumes (3 x CV) (gals.): -                                    |  |

**Purging Data**

|                               | Initial | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling |
|-------------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|------|----------|
| Volume Purged (gallons)       | 5.0     |                      |                      |                      |                      |                      |      |          |
| Time (military)               | 1201    |                      |                      |                      |                      |                      |      | 1201     |
| pH (s.u.)                     | NM      |                      |                      |                      |                      |                      |      |          |
| Specific Conductivity (µS/cm) |         |                      |                      |                      |                      |                      |      |          |
| Water Temperature (°C)        |         |                      |                      |                      |                      |                      |      |          |
| Turbidity (NTU)               |         |                      |                      |                      |                      |                      |      |          |
| Dissolved Oxygen (mg/L)       |         |                      |                      |                      |                      |                      |      |          |

**Sampling Data**

|   |                     |                     |                           |
|---|---------------------|---------------------|---------------------------|
| Sampled By: COREY N. BUCHANAN   | Sampling Time: 1201 | Duplicate: Y or (N) | If yes, Duplicate Time: - |
| Notes: WELL SHOULD REMAIN WELL DISCONNECTED.<br>NOT ACTIVE. 62 FAULKNER MOUNTAIN ROAD |                     |                     |                           |
| Signature: Corey N. Buchanan  |                     |                     |                           |



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/3/17 Site ID #: 07960 Site Name: 378 truck stop Field Personnel: COREY W. BUCHANAN & TERRY KENNEY  
 County: DOUGLASS Project Manager: SLATE BALL General Weather Conditions: Sunny / CLOUDY Ambient Air Temp (°F): 80

**Quality Assurance**

| Meter Name  | Serial #            | Calibration                                       |   |  |   |
|---|---------------------|---|---|--|---|
| YSI 83 (pH, Specific Conductivity, Temperature)<br><u>SSB</u> | <u>138100012</u>    | pH 4.0 <input checked="" type="checkbox"/> or N   | pH 7.0 <input checked="" type="checkbox"/> or N   | pH 10.0 <input checked="" type="checkbox"/> or N   | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>SSB</u>                       | <u>138100012</u>    | <input checked="" type="checkbox"/> or N          |   |  |   |
| HANNA (Turbidity)<br><u>HANNA 9102</u>                        | <u>16030C04E860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: W114 Well Diameter (in): 6 1/2" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection:  Bailor  Pump  
 MW  JW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ to UNK Total Well Depth (TWD) (ft.): UNK  
 Private WSW  Public WSW Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): UNK Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1140</u> |                      |                      |                      |                      |                      |      | <u>1140</u> |
| pH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       | <u>✓</u>    |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: COREY W. BUCHANAN Sampling Time: 1140 Duplicate: Y or (N) If yes, Duplicate Time: -  
 Notes: 54 FAULKNER MOUNTAIN ROAD Signature: COREY W. BUCHANAN



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/31/17 Site ID #: 07960 Site Name: 398 Truck Stop Field Personnel: Corsy N. Buchanan & Tracy Kennedy  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny/Cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:           |                        |                         |                  |
|---|---------------------|------------------------|------------------------|-------------------------|------------------|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>SSB</u> | <u>138100013</u>    | pH 4.0 <u>X</u> or N   | pH 7.0 <u>X</u> or N   | pH 10.0 <u>X</u> or N   | SC <u>X</u> or N |
| YSI 58 (Dissolved Oxygen)<br><u>SSB</u>                       | <u>138100017</u>    | <u>X</u> or N          |                        |                         |                  |
| Hanna (Turbidity)<br><u>Hanna</u>                             | <u>16a30cove060</u> | 0.0 NTU: <u>X</u> or N | 1.0 NTU: <u>X</u> or N | 10.0 NTU: <u>X</u> or N |                  |

**Well Information**

Well ID: W-15 Well Diameter (ft.): 6" dia Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer  Pump  
 MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ to unk Total Well Depth (TWD) (ft.): unk  
 Private WSW  Public WSW Free Product Thickness (ft.): \_\_\_\_\_  
 Depth to Free Product (DFP) (ft.): \_\_\_\_\_ Depth to Groundwater (DGW) (ft.): unk Free Product Thickness (ft.): \_\_\_\_\_  
 Length of water column (LWC = TWD - DGW) (ft.): \_\_\_\_\_ 1 casing volume (CV = LWC x C) (gals.): \_\_\_\_\_ 3 casing volumes (3 x CV) (gals.): \_\_\_\_\_

**Purging Data**

|                               | Initial    | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling   |
|-------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|------------|
| Volume Purged (gallons)       | <u>5.0</u> |                      |                      |                      |                      |                      |      |            |
| Time (minutes)                | <u>115</u> |                      |                      |                      |                      |                      |      | <u>115</u> |
| pH (s.u.)                     | <u>NM</u>  |                      |                      |                      |                      |                      |      |            |
| Specific Conductivity (µS/cm) |            |                      |                      |                      |                      |                      |      |            |
| Water Temperature (°C)        |            |                      |                      |                      |                      |                      |      |            |
| Turbidity (NTU)               |            |                      |                      |                      |                      |                      |      |            |
| Dissolved Oxygen (mg/L)       | <u>N</u>   |                      |                      |                      |                      |                      |      |            |

**Sampling Data**

Sampled By: Corsy N. Buchanan Sampling Time: 115 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
57 Fluoride (M) Signature: Corsy N. Buchanan



**Underground Storage Tank Management Division  
Field Data Information Sheet - Sampling**

**Site Information**

Date: 8/3/17 Site ID #: 07960 Site Name: 398 Truck Stop Field Personnel: Corey N. Buchanan & Tracy Kennedy  
 County: Edgecombe Project Manager: Scott Ball General Weather Conditions: Sunny / cloudy Ambient Air Temp (°F): ~80°

**Quality Assurance**

| Meter Name  | Serial #            | Calibration:                                      |   |  |   |
|---|---------------------|---|---|--|---|
| YSI 63 (pH, Specific Conductivity, Temperature)<br><u>536</u> | <u>13010013</u>     | pH 4.0: <input checked="" type="checkbox"/> or N  | pH 7.0: <input checked="" type="checkbox"/> or N  | pH 10.0: <input checked="" type="checkbox"/> or N  | S.C. <input checked="" type="checkbox"/> or N |
| YSI 55 (Dissolved Oxygen)<br><u>536</u>                       | <u>13010013</u>     | <input checked="" type="checkbox"/> or N          |   |  |   |
| LaMotte (Turbidity)<br><u>HA011002</u>                        | <u>16030C04E860</u> | 0.0 NTU: <input checked="" type="checkbox"/> or N | 1.0 NTU: <input checked="" type="checkbox"/> or N | 10.0 NTU: <input checked="" type="checkbox"/> or N |   |

**Well Information**

Well ID: WSU-X Well Diameter (ft.): 6.25" Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Puring/Sample Collection: Bailer  Pump

MW  IW  RW  Other \_\_\_\_\_ Screened Interval (ft.): \_\_\_\_\_ to W/L Total Well Depth (TWD) (ft.): W/L  
 Private WSW  Public WSW

Depth to Free Product (DFP) (ft.): - Depth to Groundwater (DGW) (ft.): W/L Free Product Thickness (ft.): -  
 Length of water column (LWC = TWD - DGW) (ft.): - 1 casing volume (CV = LWC x C) (gals.): - 3 casing volumes (3 x CV) (gals.): -

**Purging Data**

|                               | Initial     | 1 <sup>st</sup> Vol. | 2 <sup>nd</sup> Vol. | 3 <sup>rd</sup> Vol. | 4 <sup>th</sup> Vol. | 5 <sup>th</sup> Vol. | Post | Sampling    |
|-------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|-------------|
| Volume Purged (gallons)       | <u>5.0</u>  |                      |                      |                      |                      |                      |      |             |
| Time (military)               | <u>1403</u> |                      |                      |                      |                      |                      |      | <u>1405</u> |
| pH (s.u.)                     | <u>NM</u>   |                      |                      |                      |                      |                      |      |             |
| Specific Conductivity (µS/cm) |             |                      |                      |                      |                      |                      |      |             |
| Water Temperature (°C)        |             |                      |                      |                      |                      |                      |      |             |
| Turbidity (NTU)               |             |                      |                      |                      |                      |                      |      |             |
| Dissolved Oxygen (mg/L)       |             |                      |                      |                      |                      |                      |      |             |

**Sampling Data**

Sampled By: Corey N. Buchanan Sampling Time: 1403 Duplicate: Y or (N) If yes, Duplicate Time: \_\_\_\_\_

Notes: 102 FALLNER MOUNTAIN ROAD

Signature: Corey N. Buchanan

**APPENDIX C**

**Historical Ground Water Elevation Data and Ground Water Quality Data**

**TABLE 2**  
**GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID   | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|-----------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| 07960-MW1 | 5/25/2010     | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|           | 10/18/2010    | 101.98                       | 26.50                      | 26.54                      | 0.04                        | 75.47                                    |                 |                        |
|           | 4/19/2011     |                              | --                         | 21.70                      | --                          | 80.28                                    |                 |                        |
|           | 8/29/2011     |                              | --                         | 31.17                      | --                          | 70.81                                    |                 |                        |
|           | 2/12/2013     |                              | 28.12                      | 28.21                      | 0.09                        | 73.84                                    |                 |                        |
|           | 9/30/2013     |                              | 23.10                      | 23.14                      | 0.04                        | 78.87                                    |                 |                        |
|           | 7/28/2014     |                              | --                         | 23.95                      | --                          | 78.03                                    |                 |                        |
| 07960-MW2 | 5/25/2010     |                              | 101.02                     | --                         | 16.82                       | --                                       | 84.20           | 41.72                  |
|           | 10/18/2010    | 100.99                       | --                         | 27.10                      | --                          | 73.89                                    |                 |                        |
|           | 4/19/2011     |                              | --                         | 23.34                      | --                          | 77.68                                    |                 |                        |
|           | 8/29/2011     |                              | --                         | 30.91                      | --                          | 70.08                                    |                 |                        |
|           | 2/12/2013     |                              | --                         | 31.33                      | --                          | 69.66                                    |                 |                        |
|           | 9/30/2013     |                              | --                         | 24.02                      | --                          | 76.97                                    |                 |                        |
|           | 7/28/2014     |                              | --                         | 24.39                      | --                          | 76.60                                    |                 |                        |
| 07960-MW3 | 5/25/2010     |                              | 101.46                     | --                         | 17.28                       | --                                       | 84.18           | 40                     |
|           | 10/18/2010    | 101.54                       | --                         | 27.58                      | --                          | 73.96                                    |                 |                        |
|           | 4/19/2011     |                              | --                         | 23.78                      | --                          | 77.76                                    |                 |                        |
|           | 8/29/2011     |                              | --                         | 31.38                      | --                          | 70.16                                    |                 |                        |
|           | 2/12/2013     |                              | --                         | 31.79                      | --                          | 69.75                                    |                 |                        |
|           | 9/30/2013     |                              | --                         | 24.51                      | --                          | 77.03                                    |                 |                        |
|           | 7/28/2014     |                              | --                         | 24.74                      | --                          | 76.80                                    |                 |                        |
| 07960-MW4 | 5/25/2010     |                              | 100.50                     | --                         | 16.35                       | --                                       | 84.15           | 40                     |
|           | 10/18/2010    | 100.48                       | --                         | 26.20                      | --                          | 74.28                                    |                 |                        |
|           | 4/19/2011     |                              | --                         | 22.12                      | --                          | 78.36                                    |                 |                        |
|           | 8/29/2011     |                              | --                         | 29.92                      | --                          | 70.56                                    |                 |                        |
|           | 2/12/2013     |                              | --                         | 30.00                      | --                          | 70.48                                    |                 |                        |
|           | 9/30/2013     |                              | --                         | 23.09                      | --                          | 77.39                                    |                 |                        |
|           | 7/28/2014     |                              | --                         | 23.10                      | --                          | 77.38                                    |                 |                        |
| 07960-MW5 | 5/25/2010     |                              | 104.21                     | --                         | 27.30                       | --                                       | 76.91           | 40                     |
|           | 10/18/2010    | 104.18                       | --                         | 30.24                      | --                          | 73.94                                    |                 |                        |
|           | 4/19/2011     |                              | --                         | 27.63                      | --                          | 76.55                                    |                 |                        |
|           | 8/29/2011     |                              | --                         | 34.18                      | --                          | 70.00                                    |                 |                        |
|           | 2/12/2013     |                              | --                         | 36.02                      | --                          | 68.16                                    |                 |                        |
|           | 9/30/2013     |                              | --                         | 27.51                      | --                          | 76.67                                    |                 |                        |
|           | 7/28/2014     |                              | --                         | 27.01                      | --                          | 77.17                                    |                 |                        |
| 07960-MW6 | 10/18/2010    |                              | 102.25                     | --                         | 28.01                       | --                                       | 74.24           | 35.05                  |
|           | 4/19/2011     | --                           |                            | 23.06                      | --                          | 79.19                                    |                 |                        |
|           | 8/29/2011     | --                           |                            | 32.01                      | --                          | 70.24                                    |                 |                        |
|           | 2/12/2013     | --                           |                            | 30.98                      | --                          | 71.27                                    |                 |                        |
|           | 9/30/2013     | --                           |                            | 24.52                      | --                          | 77.73                                    |                 |                        |
|           | 7/28/2014     | --                           |                            | 25.29                      | --                          | 76.96                                    |                 |                        |
| 07960-MW7 | 10/18/2010    | 99.72                        | --                         | 25.10                      | --                          | 74.62                                    | 34.92           | 19.92-34.92            |
|           | 4/19/2011     |                              | --                         | 21.04                      | --                          | 78.68                                    |                 |                        |
|           | 8/29/2011     |                              | --                         | 25.83                      | --                          | 73.89                                    |                 |                        |
|           | 2/12/2013     |                              | --                         | 28.60                      | --                          | 71.12                                    |                 |                        |
|           | 9/30/2013     |                              | --                         | 20.10                      | --                          | 79.62                                    |                 |                        |
|           | 7/28/2014     |                              | --                         | 19.89                      | --                          | 79.83                                    |                 |                        |

**TABLE 2**  
**GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID    | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|------------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| 07960-MW8  | 10/18/2010    | 99.92                        | --                         | 25.45                      | --                          | 74.47                                    | 35.08           | 20.08-35.08            |
|            | 4/19/2011     |                              | --                         | 22.51                      | --                          | 77.41                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 28.62                      | --                          | 71.30                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 29.52                      | --                          | 70.40                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 24.74                      | --                          | 75.18                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 23.80                      | --                          | 76.12                                    |                 |                        |
| 07960-MW9  | 10/18/2010    | 94.83                        | --                         | 30.31                      | --                          | 64.52                                    | 35.17           | 20.17-35.17            |
|            | 4/19/2011     |                              | --                         | 24.13                      | --                          | 70.70                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 28.08                      | --                          | 66.75                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 30.51                      | --                          | 64.32                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 23.00                      | --                          | 71.83                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 22.60                      | --                          | 72.23                                    |                 |                        |
| 07960-MW10 | 10/18/2010    | 99.12                        | --                         | 29.73                      | --                          | 69.39                                    | 40.16           | 25.16-40.16            |
|            | 4/19/2011     |                              | --                         | 26.18                      | --                          | 72.94                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 31.51                      | --                          | 67.61                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 27.25                      | --                          | 71.87                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 25.38                      | --                          | 73.74                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 25.27                      | --                          | 73.85                                    |                 |                        |
| 07960-MW11 | 10/18/2010    | 102.61                       | --                         | 28.75                      | --                          | 73.86                                    | 35.23           | 20.23-35.23            |
|            | 4/19/2011     |                              | --                         | 25.59                      | --                          | 77.02                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 32.42                      | --                          | 70.19                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 33.99                      | --                          | 68.62                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 25.10                      | --                          | 77.51                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 25.23                      | --                          | 77.38                                    |                 |                        |
| 07960-MW12 | 10/18/2010    | 103.46                       | --                         | 29.63                      | --                          | 73.83                                    | 34.99           | 19.99-34.99            |
|            | 4/19/2011     |                              | --                         | 26.11                      | --                          | 77.35                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 33.56                      | --                          | 69.90                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | Dry                        | --                          | Dry                                      |                 |                        |
|            | 9/30/2013     |                              | --                         | 26.25                      | --                          | 77.21                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 24.89                      | --                          | 78.57                                    |                 |                        |
| 07960-MW13 | 10/18/2010    | 101.48                       | --                         | 27.63                      | --                          | 73.85                                    | 40.19           | 25.19-40.19            |
|            | 4/19/2011     |                              | --                         | 23.50                      | --                          | 77.98                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 31.34                      | --                          | 70.14                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 31.69                      | --                          | 69.79                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 24.74                      | --                          | 76.74                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 22.95                      | --                          | 78.53                                    |                 |                        |
| 07960-MW14 | 10/18/2010    | 103.48                       | --                         | 29.99                      | --                          | 73.49                                    | 39.74           | 24.74-39.74            |
|            | 4/19/2011     |                              | --                         | 28.52                      | --                          | 74.96                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 34.59                      | --                          | 68.89                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 35.07                      | --                          | 68.41                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 27.01                      | --                          | 76.47                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 28.00                      | --                          | 75.48                                    |                 |                        |
| 07960-MW15 | 10/18/2010    | 103.16                       | --                         | 30.32                      | --                          | 72.84                                    | 40.13           | 25.13-40.13            |
|            | 4/19/2011     |                              | --                         | 25.18                      | --                          | 77.98                                    |                 |                        |
|            | 8/29/2011     |                              | --                         | 33.50                      | --                          | 69.66                                    |                 |                        |
|            | 2/12/2013     |                              | --                         | 33.42                      | --                          | 69.74                                    |                 |                        |
|            | 9/30/2013     |                              | --                         | 26.85                      | --                          | 76.31                                    |                 |                        |
|            | 7/28/2014     |                              | --                         | 27.60                      | --                          | 75.56                                    |                 |                        |

**TABLE 2**  
**GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID     | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Groundwater (ft) | Free Product Thickness (ft) | Groundwater Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|-------------|---------------|------------------------------|----------------------------|---------------------------|-----------------------------|---|-----------------|------------------------|
| 07960-MW-16 | 10/18/2010    | 101.32                       | --                         | 30.79                     | --                          | 70.53                                   | 40.11           | 25.11-40.11            |
|             | 4/19/2011     |                              | --                         | 24.59                     | --                          | 76.73                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 32.68                     | --                          | 68.64                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 33.56                     | --                          | 67.76                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 25.31                     | --                          | 76.01                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 25.31                     | --                          | 76.01                                   |                 |                        |
| 07960-MW17  | 10/18/2010    | 98.40                        | --                         | 23.74                     | --                          | 74.66                                   | 35.02           | 20.02-35.02            |
|             | 4/19/2011     |                              | --                         | 18.20                     | --                          | 80.20                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 28.55                     | --                          | 69.85                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 19.25                     | --                          | 79.15                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 20.20                     | --                          | 78.20                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 21.00                     | --                          | 77.40                                   |                 |                        |
| 07960-MW18  | 10/18/2010    | 95.05                        | --                         | 22.02                     | --                          | 73.03                                   | 35.67           | 20.67-35.67            |
|             | 4/19/2011     |                              | --                         | 15.71                     | --                          | 79.34                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 23.00                     | --                          | 72.05                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 23.23                     | --                          | 71.82                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 18.25                     | --                          | 76.80                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 18.35                     | --                          | 76.70                                   |                 |                        |
| 07960-MW19  | 10/18/2010    | 101.07                       | --                         | 27.62                     | --                          | 73.45                                   | 38.57           | 23.57-38.57            |
|             | 4/19/2011     |                              | --                         | 21.63                     | --                          | 79.44                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 30.56                     | --                          | 70.51                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 32.05                     | --                          | 69.02                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 24.35                     | --                          | 76.72                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 25.64                     | --                          | 75.43                                   |                 |                        |
| 07960-MW20  | 12/6/2010     | 110.52                       | --                         | 41.77                     | --                          | 68.75                                   | 45.05           | 30.05-45.05            |
|             | 4/19/2011     |                              | --                         | 37.72                     | --                          | 72.80                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 41.27                     | --                          | 69.25                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | Dry                       | --                          | Dry                                     |                 |                        |
|             | 9/30/2013     |                              | --                         | 35.84                     | --                          | 74.68                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 31.20                     | --                          | 79.32                                   |                 |                        |
| 07960-MW21  | 12/6/2010     | 101.70                       | --                         | 32.66                     | --                          | 69.04                                   | 40.16           | 25.16-40.16            |
|             | 4/19/2011     |                              | --                         | 24.19                     | --                          | 77.51                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 38.77                     | --                          | 62.93                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 32.00                     | --                          | 69.70                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 22.41                     | --                          | 79.29                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 24.15                     | --                          | 77.55                                   |                 |                        |
| 07960-MW22  | 12/6/2010     | 105.13                       | --                         | 34.95                     | --                          | 70.18                                   | 40.09           | 25.09-40.09            |
|             | 4/19/2011     |                              | --                         | 28.56                     | --                          | 76.57                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 35.88                     | --                          | 69.25                                   |                 |                        |
|             | 2/12/2013     |                              | 37.61                      | 37.98                     | 0.37                        | 67.43                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 29.18                     | --                          | 75.95                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 29.30                     | --                          | 75.83                                   |                 |                        |
| 07960-MW23  | 12/6/2010     | 100.01                       | --                         | 29.26                     | --                          | 70.75                                   | 37.24           | 22.24-37.24            |
|             | 4/19/2011     |                              | --                         | 19.69                     | --                          | 80.32                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 29.01                     | --                          | 71.00                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 26.28                     | --                          | 73.73                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 22.83                     | --                          | 77.18                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 24.82                     | --                          | 75.19                                   |                 |                        |
| 07960-MW24  | 12/6/2010     | 99.08                        | --                         | 32.25                     | --                          | 66.83                                   | 40.13           | 25.13-40.13            |
|             | 4/19/2011     |                              | --                         | 25.58                     | --                          | 73.50                                   |                 |                        |
|             | 8/29/2011     |                              | --                         | 31.62                     | --                          | 67.46                                   |                 |                        |
|             | 2/12/2013     |                              | --                         | 33.17                     | --                          | 65.91                                   |                 |                        |
|             | 9/30/2013     |                              | --                         | 26.53                     | --                          | 72.55                                   |                 |                        |
|             | 7/28/2014     |                              | --                         | 26.45                     | --                          | 72.63                                   |                 |                        |



**TABLE 2**  
**GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID    | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Groundwater (ft) | Free Product Thickness (ft) | Groundwater Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|------------|---------------|------------------------------|----------------------------|---------------------------|-----------------------------|---|-----------------|------------------------|
| 07960-MW25 | 12/6/2010     | 101.54                       | --                         | 32.00                     | --                          | 69.54                                   | 39.98           | 24.98-39.98            |
|            | 4/19/2011     |                              | --                         | 23.44                     | --                          | 78.10                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 32.18                     | --                          | 69.36                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 33.28                     | --                          | 68.26                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 24.58                     | --                          | 76.96                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 25.45                     | --                          | 76.09                                   |                 |                        |
| 07960-MW26 | 12/6/2010     | 97.25                        | --                         | 29.08                     | --                          | 68.17                                   | 38.74           | 23.74-38.74            |
|            | 4/19/2011     |                              | --                         | 21.07                     | --                          | 76.18                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 29.08                     | --                          | 68.17                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 30.29                     | --                          | 66.96                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 21.84                     | --                          | 75.41                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 18.25                     | --                          | 79.00                                   |                 |                        |
| 07960-MW27 | 12/6/2010     | 97.20                        | --                         | 28.48                     | --                          | 68.72                                   | 35.10           | 20.10-35.10            |
|            | 4/19/2011     |                              | --                         | 24.42                     | --                          | 72.78                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 29.24                     | --                          | 67.96                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 30.27                     | --                          | 66.93                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 22.87                     | --                          | 74.33                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 22.75                     | --                          | 74.45                                   |                 |                        |
| 07960-MW28 | 12/6/2010     | 101.29                       | --                         | 33.39                     | --                          | 67.90                                   | 40.03           | 25.03-40.03            |
|            | 4/19/2011     |                              | --                         | 20.91                     | --                          | 80.38                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 29.92                     | --                          | 71.37                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 28.86                     | --                          | 72.43                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 24.65                     | --                          | 76.64                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 22.05                     | --                          | 79.24                                   |                 |                        |
| 07960-MW29 | 2/12/2013     | 101.08                       | --                         | 32.04                     | --                          | 69.04                                   | 40.15           | 25.15-40.15            |
|            | 9/30/2013     |                              | --                         | 23.99                     | --                          | 77.09                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 23.25                     | --                          | 77.83                                   |                 |                        |
| 07960-MW30 | 2/12/2013     | 104.62                       | --                         | 36.20                     | --                          | 68.42                                   | 45.05           | 30.05-45.05            |
|            | 9/30/2013     |                              | --                         | 28.51                     | --                          | 76.11                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 26.14                     | --                          | 78.48                                   |                 |                        |
| 07960-MW31 | 2/12/2013     | 103.20                       | --                         | 35.31                     | --                          | 67.89                                   | 43.96           | 28.96-43.96            |
|            | 9/30/2013     |                              | --                         | 27.30                     | --                          | 75.90                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 24.80                     | --                          | 78.40                                   |                 |                        |
| 07960-TW1  | 10/18/2010    | 101.83                       | --                         | 28.44                     | --                          | 73.39                                   | 63.27           | 58.27-63.27            |
|            | 4/19/2011     |                              | --                         | 25.53                     | --                          | 76.30                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 32.26                     | --                          | 69.57                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 33.22                     | --                          | 68.61                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 25.66                     | --                          | 76.17                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 25.55                     | --                          | 76.28                                   |                 |                        |
| 07960-TW2  | 10/18/2010    | 101.97                       | --                         | 29.57                     | --                          | 72.40                                   | 80.23           | 75.23-80.23            |
|            | 4/19/2011     |                              | --                         | 23.83                     | --                          | 78.14                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 31.62                     | --                          | 70.35                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 33.22                     | --                          | 68.75                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 24.27                     | --                          | 77.70                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 24.59                     | --                          | 77.38                                   |                 |                        |

**TABLE 2**  
**GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID    | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Groundwater (ft) | Free Product Thickness (ft) | Groundwater Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|------------|---------------|------------------------------|----------------------------|---------------------------|-----------------------------|---|-----------------|------------------------|
| 07960-TW-3 | 10/18/2010    | 95.33                        | --                         | 25.39                     | --                          | 69.94                                   | 80.62           | 75.62-80.62            |
|            | 4/19/2011     |                              | --                         | 23.83                     | --                          | 71.50                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 27.78                     | --                          | 67.55                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 29.97                     | --                          | 65.36                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 22.78                     | --                          | 72.55                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 22.50                     | --                          | 72.83                                   |                 |                        |
| 07960-TW4  | 10/18/2010    | 99.23                        | --                         | 43.13                     | --                          | 56.10                                   | 68.56           | 63.56-68.56            |
|            | 4/19/2011     |                              | --                         | 27.11                     | --                          | 72.12                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 31.09                     | --                          | 68.14                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 32.81                     | --                          | 66.42                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 23.45                     | --                          | 75.78                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 22.19                     | --                          | 77.04                                   |                 |                        |
| 07960-TW5  | 10/18/2010    | 103.62                       | --                         | 29.69                     | --                          | 73.93                                   | 58.38           | 53.38-58.38            |
|            | 4/19/2011     |                              | --                         | 25.96                     | --                          | 77.66                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 33.09                     | --                          | 70.53                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 34.60                     | --                          | 69.02                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 26.42                     | --                          | 77.20                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 26.91                     | --                          | 76.71                                   |                 |                        |
| 07960-TW6  | 10/18/2010    | 101.29                       | --                         | 31.22                     | --                          | 70.07                                   | 58.55           | 53.55-58.55            |
|            | 4/19/2011     |                              | --                         | 25.25                     | --                          | 76.04                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 33.00                     | --                          | 68.29                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 33.80                     | --                          | 67.49                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 26.72                     | --                          | 74.57                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 27.55                     | --                          | 73.74                                   |                 |                        |
| 07960-TW7  | 10/18/2010    | 98.13                        | --                         | 50.90                     | --                          | 47.23                                   | 58.94           | 53.94-58.94            |
|            | 4/19/2011     |                              | --                         | 16.83                     | --                          | 81.30                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 36.98                     | --                          | 61.15                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 37.54                     | --                          | 60.59                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 19.20                     | --                          | 78.93                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 15.79                     | --                          | 82.34                                   |                 |                        |
| 07960-TW8  | 10/18/2010    | 101.03                       | --                         | 28.18                     | --                          | 72.85                                   | 58.53           | 53.53-58.53            |
|            | 4/19/2011     |                              | --                         | 22.19                     | --                          | 78.84                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 41.54                     | --                          | 59.49                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 42.13                     | --                          | 58.90                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 32.10                     | --                          | 68.93                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 25.57                     | --                          | 75.46                                   |                 |                        |
| 07960-TW9  | 12/6/2010     | 96.92                        | --                         | 28.96                     | --                          | 67.96                                   | 80.12           | 75.12-80.12            |
|            | 4/19/2011     |                              | --                         | 21.14                     | --                          | 75.78                                   |                 |                        |
|            | 8/29/2011     |                              | --                         | 28.94                     | --                          | 67.98                                   |                 |                        |
|            | 2/12/2013     |                              | --                         | 30.22                     | --                          | 66.70                                   |                 |                        |
|            | 9/30/2013     |                              | --                         | 22.59                     | --                          | 74.33                                   |                 |                        |
|            | 7/28/2014     |                              | --                         | 23.95                     | --                          | 72.97                                   |                 |                        |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. 07960-MW20 installed with a 3 ft stickup riser.

**TABLE 3A**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID                 | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------------|-------------|--------------------|-------------------|---------------------|----------------------|-------------|--------------------|-----------------|-------------|-------------------|
| <b>RBSL<sup>9</sup></b> |             | <b>5</b>           | <b>1,000</b>      | <b>700</b>          | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>        | <b>0.05</b> | <b>15</b>         |
| 07960 - MW1             | 5/25/2010   | Free Product       |                   |                     |                      |             |                    |                 |             |                   |
|                         | 10/18/2010  | Free Product       |                   |                     |                      |             |                    |                 |             |                   |
|                         | 4/19/2011   | 456                | 210               | 1,010               | 4,700                | <50.0       | 277                | <50.0           | 1.2         | NR                |
|                         | 8/29/2011   | 1,130              | 317               | 941                 | 3,779                | <50         | 225                | 82              | 1.3         | NR                |
|                         | 2/13/2013   | Free Product       |                   |                     |                      |             |                    |                 |             |                   |
|                         | 9/30/2013   | Free Product       |                   |                     |                      |             |                    |                 |             |                   |
|                         | 7/30/2014   | 1,080              | 830               | 1,680               | 7,440                | <50.0       | 619                | 78.0            | 3.6         | NR                |
| 07960 - MW2             | 5/25/2010   | 109 <sup>2</sup>   | <5.0 <sup>1</sup> | 114                 | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035       | NR                |
|                         | 10/19/2010  | 1.7 J <sup>5</sup> | <5.0              | <5.0                | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020      | NR                |
|                         | 4/20/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 28.5            | <0.020      | NR                |
|                         | 8/29/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 26.1            | <0.019      | NR                |
|                         | 2/13/2013   | 6.7                | <5.0              | 5.0                 | 13.1                 | <5.0        | <5.0               | 28.8            | <0.020      | NR                |
|                         | 10/1/2013   | <5.0               | <5.0              | <5.0                | <10.0                | <5.0        | <5.0               | 26.7            | <0.020      | NR                |
|                         | 7/30/2014   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 22.1            | <0.020      | NR                |
| 07960 - MW3             | 5/25/2010   | 239                | 139               | 815                 | 4,800                | <5.0        | 285                | 126             | 0.099       | 28.9              |
|                         | 10/18/2010  | 6,820              | 343               | 981                 | 6,260                | 3.4 J       | 449                | 561             | 0.31        | NR                |
|                         | 4/19/2011   | 7,300              | 253               | 921                 | 5,060                | <250        | 342                | 542             | 0.30        | NR                |
|                         | 8/29/2011   | 7,000              | 572               | 1,170               | 6,710                | <250        | 371                | 438             | 0.033       | NR                |
|                         | 2/13/2013   | 6,860              | 366               | 660                 | 3,256                | <250        | 349                | 586             | 0.40        | NR                |
|                         | 10/1/2013   | 8,400              | 784               | 1,540               | 6,080                | <250        | 498                | 568             | 0.80        | NR                |
|                         | 7/29/2014   | 6,960              | 684               | 1,180               | 5,330                | <250        | 469                | 521             | 1.50        | NR                |
| 07960 - MW4             | 5/25/2010   | 2.9 J              | <5.0              | 1.4 J               | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020      | 62.8              |
|                         | 10/18/2010  | 5.7                | <5.0              | <5.0                | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020      | NR                |
|                         | 4/20/2011   | 16.4               | <5.0              | 6.0                 | 14.0                 | <5.0        | 9.3                | <5.0            | <0.020      | NR                |
|                         | 8/29/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 2/13/2013   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.021      | NR                |
|                         | 10/1/2013   | <5.0               | <5.0              | <5.0                | <10.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 7/30/2014   | 11.4               | <5.0              | 2.8J                | <15.0                | <5.0        | 3.4J               | 2.2J            | <0.020      | NR                |
| 07960 - MW5             | 5/25/2010   | 3.6 J              | 1.8 J             | 4.0 J               | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020      | 11.8              |
|                         | 10/18/2010  | 102                | <5.0              | 4.1 J               | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020      | NR                |
|                         | 4/20/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 8/29/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019      | NR                |
|                         | 2/13/2013   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 10/1/2013   | <5.0               | <5.0              | <5.0                | <10.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 7/30/2014   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
| 07960 - MW6             | 10/19/2010  | <5.0               | <5.0              | <5.0                | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 8/29/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019      | NR                |
|                         | 2/13/2013   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 10/1/2013   | <5.0               | <5.0              | <5.0                | <10.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 7/29/2014   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
| 07960 - MW7             | 10/19/2010  | 12.9               | 4.6 J             | 3.2 J               | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40        | <5.0              |
|                         | 4/20/2011   | 794                | 108               | 410                 | 2,536                | <5.0        | 116                | 66.6            | 6.9         | NR                |
|                         | 8/29/2011   | 275                | <10.0             | 42.6                | 178.8                | <10.0       | 30.7               | 26              | 0.58        | NR                |
|                         | 2/13/2013   | 186                | <10.0             | 23.4                | <30.0                | <10.0       | <10.0              | 11              | 0.028       | NR                |
|                         | 10/1/2013   | 2,100              | 32.0              | 652                 | 4,120                | <10.0       | 328                | 123             | 7.6         | NR                |
|                         | 7/29/2014   | 2,200              | 13.1              | 623                 | 2,519                | 3.0J        | 250J               | 147             | 8.1         | NR                |
| 07960 - MW8             | 10/19/2010  | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0               | <5.0              | <5.0                | 4.0 J                | <5.0        | 2.2 J              | <5.0            | <0.020      | NR                |
|                         | 8/29/2011   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019      | NR                |
|                         | 2/13/2013   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 10/1/2013   | <5.0               | <5.0              | <5.0                | <10.0                | <5.0        | <5.0               | <5.0            | <0.020      | NR                |
|                         | 7/30/2014   | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019      | NR                |

TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP

| Well ID           | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |  |
|-------------------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|--|
| RBSL <sup>2</sup> |             | 5              | 1,000          | 700                 | 10,000               | 40          | 25                 | 5              | 0.05       | 15                |  |
| 07960 - MW9       | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |  |
|                   | 4/19/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 10/1/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |  |
|                   | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
| 07960 - MW10      | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | <5.0              |  |
|                   | 4/19/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 10/1/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
| 07960 - MW11      | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 1.3 J          | <0.020     | <5.0              |  |
|                   | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | 7.9            | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.8 J          | <0.019     | NR                |  |
|                   | 2/13/2013   | 14.2           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 10/1/2013   | 16.2           | <5.0           | <5.0                | <15.0                | <5.0        | 2.1 J              | 3.0 J          | <0.020     | NR                |  |
|                   | 7/30/2014   | 12.9           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 5.1            | <0.020     | NR                |  |
| 07960 - MW12      | 10/19/2010  | 387            | 1,210          | 120                 | 2,650                | <5.0        | 187                | 24.7           | 4.8        | <5.0              |  |
|                   | 4/20/2011   | 1,360          | 987            | 462                 | 1,659                | <50.0       | 91.3               | 75.7           | 6.0        | NR                |  |
|                   | 8/29/2011   | 429            | 26.9           | 8.3 J               | 18.3 J               | <12.5       | 5.2 J              | 126            | 2.5        | NR                |  |
|                   | 2/13/2013   | DRY            |                |                     |                      |             |                    |                |            |                   |  |
|                   | 10/1/2013   | 2,020          | 169            | 193                 | 840                  | <20.0       | 139                | 94.2           | 1.3        | NR                |  |
|                   | 7/29/2014   | 2,530          | 121            | 526                 | 1,282                | <100        | 235                | 161            | 1.6        | NR                |  |
| 07960 - MW13      | 10/19/2010  | 333            | 109            | 58.3                | 282                  | <10.0       | 10.1               | 61.9           | 0.022      | <5.0              |  |
|                   | 4/20/2011   | 376            | 46.8           | 31.2                | 394                  | <12.5       | 11.7 J             | 57.0           | 0.074      | NR                |  |
|                   | 8/29/2011   | 65.5           | 11.7           | 9.2                 | 34.2                 | <5.0        | <5.0               | 41.7           | 0.033      | NR                |  |
|                   | 2/13/2013   | 376            | 28.7           | 33.5                | 330.7                | <5.0        | 12.3               | 34.3           | <0.020     | NR                |  |
|                   | 10/1/2013   | 533            | 25.1           | 22.8                | 139                  | <10.0       | 53.3               | 38.9           | <0.020     | NR                |  |
|                   | 7/29/2014   | 881            | 25.1           | 30.6                | 211.7                | <25.0       | 85.7               | 57.6           | <0.020     | NR                |  |
| 07960 - MW14      | 10/19/2010  | <5.0           | <5.0           | 2.5 J               | 9.5 J                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |  |
|                   | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | 2.8 J          | <5.0           | 3.4 J               | 5.8 J                | <5.0        | 22.0               | <5.0           | <0.020     | NR                |  |
|                   | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 10/1/2013   | 3.3 J          | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 7/30/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
| 07960 - MW15      | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.0 J          | <0.020     | <5.0              |  |
|                   | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |  |
|                   | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 9/30/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
| 07960 - MW16      | 10/19/2010  | 246            | 26.1           | 14.3                | 229.2                | <5.0        | <5.0               | 2.5 J          | <0.020     | <5.0              |  |
|                   | 4/19/2011   | 158            | 8.5            | 2.5 J               | 96.2                 | <5.0        | 5.8                | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | NR             | NR             | NR                  | NR                   | NR          | NR                 | NR             | <0.019     | NR                |  |
|                   | 2/13/2013   | 51.6           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 9/30/2013   | 24.5           | <5.0           | <5.0                | 10.2                 | <5.0        | 6.6                | <5.0           | <0.020     | NR                |  |
|                   | 7/28/2014   | 42.7           | 2.3 J          | 3.5 J               | 94.4                 | <5.0        | 43.7               | <5.0           | <0.020     | NR                |  |
| 07960 - MW17      | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | 4.3 J             |  |
|                   | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |  |
|                   | 9/30/2013   | <5.0           | <5.0           | <5.0                | <10.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |
|                   | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |  |

TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP

| Well ID                 | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|-------------|-------------------|
| <b>RBSL<sup>2</sup></b> |             | <b>5</b>       | <b>1,000</b>   | <b>700</b>          | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> | <b>15</b>         |
| 07960 - MW18            | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 9/30/2013   | <5.0           | <5.0           | <5.0                | <10.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - MW-19           | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.021      | NR                |
|                         | 9/30/2013   | <5.0           | <5.0           | <5.0                | <10.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - MW20            | 12/6/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | DRY            |                |                     |                      |             |                    |                |             |                   |
|                         | 10/1/2013   | <5.0           | <5.0           | <5.0                | <10.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 7/30/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - MW21            | 12/6/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/21/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/30/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - MW22            | 12/6/2010   | <b>11,900</b>  | <b>29,500</b>  | <b>1,800</b>        | <b>11,400</b>        | <100        | <b>522</b>         | <b>463</b>     | <b>122</b>  | <b>15.3</b>       |
|                         | 4/20/2011   | <b>8,690</b>   | <b>20,600</b>  | <b>1,870</b>        | <b>11,070</b>        | <1,250      | <1,250             | <1,250         | <b>119</b>  | NR                |
|                         | 8/29/2011   | <b>3,630</b>   | <b>23,500</b>  | <b>3,530</b>        | <b>20,200</b>        | <1,000      | <b>859 J</b>       | <1,000         | <b>188</b>  | NR                |
|                         | 2/13/2013   | Free Product   |                |                     |                      |             |                    |                |             |                   |
|                         | 10/1/2013   | <b>10,900</b>  | <b>30,500</b>  | <b>2,640</b>        | <b>20,800</b>        | <1,000      | <b>1,270</b>       | <b>420J</b>    | <b>109</b>  | NR                |
|                         | 7/29/2014   | <b>9,910</b>   | <b>25,800</b>  | <b>1,970</b>        | <b>15,850</b>        | <1,250      | <b>926J</b>        | <1,250         | <b>53.4</b> | NR                |
| 07960 - MW23            | 12/6/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - MW24            | 12/6/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>6.7</b>     | <0.020      | <5.0              |
|                         | 4/19/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>4.1 J</b>   | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>2.5 J</b>   | <0.019      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - MW25            | 12/6/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |

TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP

| Well ID           | Sample Date | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethyl-<br>benzene<br>(ug/L) | Total<br>Xylenes<br>(ug/L) | MTBE<br>(ug/L) | Naph-<br>thalene<br>(ug/L) | 1,2-<br>DCA<br>(ug/L) | EDB<br>(ug/L) | Total<br>Lead<br>(ug/L) |
|-------------------|-------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|----------------------------|-----------------------|---------------|-------------------------|
| RBSL <sup>9</sup> |             | 5                 | 1,000             | 700                         | 10,000                     | 40             | 25                         | 5                     | 0.05          | 15                      |
| 07960 - MW26      | 12/6/2010   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | <5.0                    |
|                   | 4/19/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 8/29/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.019        | NR                      |
|                   | 2/13/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 10/1/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 7/28/2014   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
| 07960 - MW27      | 12/6/2010   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <b>6.4</b>            | <0.020        | <5.0                    |
|                   | 4/20/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | 2.6 J                 | <0.020        | NR                      |
|                   | 8/29/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 2/13/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 10/1/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | 2.3 J                      | <5.0                  | <0.020        | NR                      |
|                   | 7/30/2014   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
| 07960 - MW28      | 12/6/2010   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | <5.0                    |
|                   | 4/21/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.019        | NR                      |
|                   | 8/29/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 2/13/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 10/1/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 7/30/2014   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
| 07960 - MW29      | 2/13/2013   | <b>21.4</b>       | <5.0              | 20.8                        | 63.4                       | <5.0           | <5.0                       | <b>16.7</b>           | <b>0.052</b>  | NR                      |
|                   | 10/1/2013   | <b>65.1</b>       | <5.0              | 16.2                        | 54.0                       | <5.0           | 10.4                       | <b>20.5</b>           | <0.020        | NR                      |
|                   | 7/30/2014   | <b>199.0</b>      | 8.4               | 29.6                        | 105.6                      | 1.7 J          | 9.2                        | <b>65.2</b>           | <0.020        | NR                      |
| 07960 - MW30      | 2/13/2013   | <b>527</b>        | 17.7              | 12.2                        | 270                        | <5.0           | 8.3                        | <b>21.7</b>           | <0.020        | NR                      |
|                   | 10/1/2013   | <b>602</b>        | <25.0             | 24.2 J                      | 99.3                       | <25.0          | <b>46.8</b>                | <b>37.7</b>           | <b>0.11</b>   | NR                      |
|                   | 7/29/2014   | <b>700</b>        | 14.8 J            | 14.1 J                      | 71.7 J                     | <25            | <b>69.9</b>                | <b>33.6</b>           | <0.020        | NR                      |
| 07960 - MW31      | 2/13/2013   | <b>24.5</b>       | 26.2              | 14.7                        | 109.6                      | <5.0           | <5.0                       | <b>51.4</b>           | <0.020        | NR                      |
|                   | 10/1/2013   | <b>321</b>        | 54.8              | 60.4                        | 194.0                      | <5.0           | <b>48.4</b>                | <b>45.6</b>           | <0.020        | NR                      |
|                   | 7/28/2014   | <b>394</b>        | 78.9              | 71.3                        | 182.3                      | <12.5          | <b>51.0</b>                | <b>36.6</b>           | <0.020        | NR                      |
| 07960 - TW1       | 10/18/2010  | <5.0              | <5.0              | <5.0                        | <15.0                      | 5.7            | <5.0                       | <b>64.2</b>           | <0.020        | <5.0                    |
|                   | 4/19/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | 5.0            | <5.0                       | <b>48.9</b>           | <0.020        | NR                      |
|                   | 8/29/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | 6.4            | <5.0                       | <b>48.4</b>           | <0.019        | NR                      |
|                   | 2/13/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | 5.1            | <5.0                       | <b>52.4</b>           | <0.020        | NR                      |
|                   | 10/1/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | 6.6            | <5.0                       | <b>76.1</b>           | <0.020        | NR                      |
|                   | 7/29/2014   | <b>7.0</b>        | <5.0              | 1.8 J                       | <15.0                      | 5.9            | <5.0                       | <b>60.5</b>           | <0.020        | NR                      |
| 07960 - TW2       | 10/19/2010  | <5.0              | 3.4 J             | <5.0                        | 2.8 J                      | <5.0           | <5.0                       | 4.2 J                 | <0.020        | <5.0                    |
|                   | 4/19/2011   | <5.0              | 1.6 J             | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 8/29/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.019        | NR                      |
|                   | 2/13/2013   | <5.0              | <5.0              | <5.0                        | 18.7                       | <5.0           | <5.0                       | <5.0                  | <0.019        | NR                      |
|                   | 10/1/2013   | <5.0              | 46.6              | <5.0                        | <15.0                      | <5.0           | <5.0                       | 1.0 J                 | <0.020        | NR                      |
|                   | 7/29/2014   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | 2.2 J                 | <0.020        | NR                      |
| 07960 - TW3       | 10/19/2010  | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | <5.0                    |
|                   | 4/19/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 8/29/2011   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 2/13/2013   | <5.0              | 6.5               | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 10/1/2013   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                   | 7/29/2014   | <5.0              | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |

TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP

| Well ID                 | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|-------------|-------------------|
| <b>RBSL<sup>2</sup></b> |             | <b>5</b>       | <b>1,000</b>   | <b>700</b>          | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> | <b>15</b>         |
| 07960 - TW4             | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | 2.9 J       | <5.0               | <5.0           | <0.019      | <5.0              |
|                         | 4/19/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | 34.9           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 10/1/2013   | <5.0           | 14.7           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - TW5             | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 1.7 J          | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <5.0           | 109            | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - TW6             | 10/19/2010  | 1.5 J          | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 5.1            | <0.020      | <5.0              |
|                         | 4/19/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.6 J          | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 8.9            | <0.019      | NR                |
|                         | 2/13/2013   | <5.0           | 33.3           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <5.0           | 7.3            | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - TW7             | 10/19/2010  | <5.0           | 1.9 J          | <5.0                | 5.6 J                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 9/30/2013   | <5.0           | 12.5           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | 0.020       | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - TW8             | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | <5.0              |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <5.0           | 5.4            | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - TW9             | 12/6/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | <5.0              |
|                         | 4/19/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 7/28/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960 - TW10            | 12/2/2010   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | 2.9 J              | <5.0           | <0.020      | NR                |
| 07960-WSW1              | 10/19/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020      | NR                |
| 07960-WSW1<br>pre GAC   | 11/18/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019      | NR                |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0           | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 2.4            | <0.019      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0           | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | 3.1            | <0.020      | NR                |
|                         | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW1<br>post GAC  | 11/18/2010  | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/20/2011   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0           | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0           | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.5J           | <0.020      | NR                |

**TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP**

| Well ID                 | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------------|-------------|---|----------------|---------------------|----------------------|-------------|--------------------|----------------|-------------|-------------------|
| <b>RBSL<sup>2</sup></b> |             | <b>5</b>  | <b>1,000</b>   | <b>700</b>          | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> | <b>15</b>         |
| 07960-WSW2              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/20/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | Not Sampled   |                |                     |                      |             |                    |                |             |                   |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW3              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 5/3/2011    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW4              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <1.0  | <1.0           | <1.0                | 2.0                  | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW5              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 4/21/2011   | Well pump not operational, could not collect sample |                |                     |                      |             |                    |                |             |                   |
|                         | 8/29/2011   | Not Sampled   |                |                     |                      |             |                    |                |             |                   |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW6              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 0.88 J         | <0.019      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 10/1/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW7              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.019      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW8              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | 3.6 J       | <5.0               | <b>9.2</b>     | <0.020      | NR                |
| 07960-WSW8<br>pre GAC   | 11/12/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>7.5</b>     | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.9 J          | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 1.6            | <0.019      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |



**TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP**

| Well ID                 | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------------|-------------|---|----------------|---------------------|----------------------|-------------|--------------------|----------------|-------------|-------------------|
| <b>RBSL<sup>9</sup></b> |             | <b>5</b>  | <b>1,000</b>   | <b>700</b>          | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> | <b>15</b>         |
| 07960-WSW8<br>post GAC  | 11/12/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW9              | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW10             | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 0.45 J         | <0.020      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | 0.60J          | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW11             | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 0.45 J         | <0.019      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | 0.83J          | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW12             | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | Well pump not operational, could not collect sample |                |                     |                      |             |                    |                |             |                   |
|                         | 8/29/2011   | Well pump not operational, could not collect sample |                |                     |                      |             |                    |                |             |                   |
|                         | 2/13/2013   | Well pump not operational, could not collect sample |                |                     |                      |             |                    |                |             |                   |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | 0.60J          | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW13             | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
| 07960-WSW14             | 10/19/2010  | <5.0  | <5.0           | <5.0                | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020      | NR                |
|                         | 4/21/2011   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 8/29/2011   | <1.0  | <1.0           | <1.0                | <3.0                 | 1.3         | <1.0               | <1.0           | <0.020      | NR                |
|                         | 2/13/2013   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                         | 9/30/2013   | <1.0  | <1.0           | <1.0                | <2.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
|                         | 7/29/2014   | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |

**TABLE 3A  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
CHEMICALS OF CONCERN  
378 TRUCK STOP**

| Well ID                 | Sample Date | Benzene<br>(ug/L)                        | Toluene<br>(ug/L) | Ethyl-<br>benzene<br>(ug/L) | Total<br>Xylenes<br>(ug/L) | MTBE<br>(ug/L) | Naph-<br>thalene<br>(ug/L) | 1,2-<br>DCA<br>(ug/L) | EDB<br>(ug/L) | Total<br>Lead<br>(ug/L) |
|-------------------------|-------------|--|-------------------|-----------------------------|----------------------------|----------------|----------------------------|-----------------------|---------------|-------------------------|
| <b>RBSL<sup>9</sup></b> |             | <b>5</b>                                 | <b>1,000</b>      | <b>700</b>                  | <b>10,000</b>              | <b>40</b>      | <b>25</b>                  | <b>5</b>              | <b>0.05</b>   | <b>15</b>               |
| 07960-WSW15             | 10/19/2010  | <5.0                                     | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.019        | NR                      |
|                         | 4/21/2011   | <5.0                                     | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                         | 8/29/2011   | <1.0                                     | <1.0              | <1.0                        | <3.0                       | <1.0           | <1.0                       | <1.0                  | <0.020        | NR                      |
|                         | 2/13/2013   | <5.0                                     | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
|                         | 9/30/2013   | <1.0                                     | <1.0              | <1.0                        | <2.0                       | 0.44J          | <1.0                       | <1.0                  | <0.020        | NR                      |
|                         | 7/29/2014   | <5.0                                     | <5.0              | <5.0                        | <15.0                      | <5.0           | <5.0                       | <5.0                  | <0.020        | NR                      |
| 07960-WSWX              | 2/13/2013   | Well House Secured & Locked with Padlock |                   |                             |                            |                |                            |                       |               |                         |

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. < = Less than the reporting limit specified in the laboratory report.
4. NA - Analyses not requested.
5. J - Estimated value below the laboratory reporting limit.
6. 07960 - TW10 did not produce enough water and was subsequently abandoned following sample collection.
7. 07960-WSW1 GAC installed on 11/18/10.
8. 07960-WSW8 GAC installed on 11/12/10.
9. Risk Based Action Levels are defined in the South Carolina Department of Health and Environmental Control (SCDHEC), Bureau of Land and Waste Management, Underground Storage Tank Program, May, 15, 2001, South Carolina Risk Based Corrective Action for Petroleum Releases.

**TABLE 3B**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L)    | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|-------------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>     | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |
| 07960 - MW1                      | 10/18/2010   | Free Product      |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 4/19/2011    | <2,000            | <100                                 | <50.0                            | <1,000                         | <1,000                              | <100                                 | <1,000                         | <500                            |
|                                  | 8/29/2011    | <2,000            | <100                                 | <50.0                            | <1,000                         | <1,000                              | <100                                 | <b>2,160</b>                   | <500                            |
|                                  | 2/13/2013    | Free Product      |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 10/1/2013    | Free Product      |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 7/30/2014    | <2,000            | <100                                 | <50.0                            | <1,000                         | <1,000                              | <100                                 | <b>2,500</b>                   | <500                            |
| 07960 - MW2                      | 10/19/2010   | <200 <sup>2</sup> | <10.0                                | <5.0                             | <100                           | 254                                 | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200              | <10.0                                | <5.0                             | <100                           | 336                                 | <10.0                                | 96.2 J                         | <50.0                           |
|                                  | 8/29/2011    | <200              | <10.0                                | <5.0                             | <100                           | 386                                 | <10.0                                | 87.1 J                         | <50.0                           |
|                                  | 2/13/2013    | <200              | <10.0                                | <5.0                             | <100                           | 307                                 | <10.0                                | 132                            | <50.0                           |
|                                  | 10/1/2013    | <200              | <10.0                                | <5.0                             | <100                           | 422                                 | <10.0                                | 202                            | <50.0                           |
|                                  | 7/30/2014    | <200              | <10.0                                | <5.0                             | <100                           | 149                                 | <10.0                                | 140                            | <50.0                           |
| 07960 - MW3                      | 10/18/2010   | <200              | <10.0                                | 55.7                             | <100                           | 773                                 | <10.0                                | <b>12,900<sup>3</sup></b>      | <50.0                           |
|                                  | 4/19/2011    | <10,000           | <500                                 | <250                             | <5,000                         | <5,000                              | <500                                 | <b>13,800</b>                  | <2,500                          |
|                                  | 8/29/2011    | <10,000           | <500                                 | <250                             | <5,000                         | <5,000                              | <500                                 | <b>10,300</b>                  | <2,500                          |
|                                  | 2/13/2013    | <10,000           | <500                                 | <250                             | <5,000                         | <5,000                              | <500                                 | <b>13,200</b>                  | <2,500                          |
|                                  | 10/1/2013    | <10,000           | <500                                 | <250                             | <5,000                         | <5,000                              | <500                                 | <b>15,500</b>                  | <2,500                          |
|                                  | 7/29/2014    | <10,000           | <500                                 | <250                             | <5,000                         | <5,000                              | <500                                 | <b>10,600</b>                  | <2,500                          |
| 07960 - MW4                      | 10/18/2010   | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 199                            | <50.0                           |
|                                  | 4/20/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 141                            | <50.0                           |
|                                  | 7/30/2014    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 115                            | <50.0                           |
| 07960 - MW5                      | 10/18/2010   | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 168                            | <50.0                           |
|                                  | 4/20/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/30/2014    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW6                      | 10/19/2010   | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 131                            | <50.0                           |
|                                  | 4/20/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW7                      | 10/19/2010   | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>2,650</b>                   | <50.0                           |
|                                  | 8/29/2011    | <400              | <20.0                                | <10.0                            | <200                           | 225                                 | <20.0                                | <b>672</b>                     | <100                            |
|                                  | 2/13/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <400              | <20.0                                | <10.0                            | <10.0                          | <200                                | <20.0                                | <b>6,780</b>                   | <100                            |
|                                  | 7/29/2014    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>4,760J</b>                  | <50.0                           |
| 07960 - MW8                      | 10/19/2010   | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>244</b>                     | <50.0                           |
|                                  | 8/29/2011    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/30/2014    | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 3B**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |  |
|----------------------------------|--------------|----------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|--|
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>  | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |  |
| 07960 - MW9                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
| 07960 - MW10                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
| 07960 - MW11                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>266</b>                     | <50.0                           |  |
|                                  | 7/30/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>357</b>                     | <50.0                           |  |
| 07960 - MW12                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | 83.0 J <sup>1</sup>                 | <10.0                                | <b>267</b>                     | <50.0                           |  |
|                                  | 4/20/2011    | <2,000         | <100                                 | <50.0                            | <1,000                         | <1,000                              | <100                                 | <1,000                         | <500                            |  |
|                                  | 8/29/2011    | <500           | <25.0                                | 4.8 J                            | <250                           | <250                                | <25.0                                | <b>615</b>                     | <125                            |  |
|                                  | 2/13/2013    | Dry            |                                      |                                  |                                |                                     |                                      |                                |                                 |  |
|                                  | 10/1/2013    | <800           | <40.0                                | <20.0                            | <400                           | 945                                 | <40.0                                | <b>1,440</b>                   | <200                            |  |
|                                  | 7/29/2014    | <4,000         | <200                                 | <100                             | <2,000                         | <2,000                              | <200                                 | <b>4,100</b>                   | <1,000                          |  |
| 07960 - MW13                     | 10/19/2010   | <400           | <20.0                                | <10.0                            | <200                           | <200                                | <20.0                                | <b>1,260</b>                   | <100                            |  |
|                                  | 4/20/2011    | <500           | <25.0                                | <12.5                            | <250                           | <250                                | <25.0                                | <b>1,210</b>                   | <125                            |  |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>1,040</b>                   | <50.0                           |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>340</b>                     | <50.0                           |  |
|                                  | 10/1/2013    | <400           | <20.0                                | <10.0                            | <200                           | 147J                                | <20.0                                | <b>1,260</b>                   | <100                            |  |
|                                  | 7/29/2014    | <1000          | <50                                  | <25.0                            | <500                           | <500                                | <50.0                                | <b>2,090</b>                   | <250                            |  |
| 07960 - MW14                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 7/30/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
| 07960 - MW15                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
| 07960 - MW16                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>360</b>                     | <50.0                           |  |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>321</b>                     | <50.0                           |  |
|                                  | 8/29/2011    | Not Requested  |                                      |                                  |                                |                                     |                                      |                                |                                 |  |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |  |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 168                            | <50.0                           |  |

**TABLE 3B**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|----------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>  | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |
| 07960 - MW17                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW18                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW19                     | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW20                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | Dry            |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 10/11/2003   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/30/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW21                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>368</b>                     | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/30/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW22                     | 12/6/2010    | <4,000         | <200                                 | <100                             | <2,000                         | <2,000                              | <200                                 | <b>9,730</b>                   | <1,000                          |
|                                  | 4/20/2011    | <50,000        | <2,500                               | <1,250                           | <25,000                        | <25,000                             | <2,500                               | <25,000                        | <12,500                         |
|                                  | 8/29/2011    | <40,000        | <2,000                               | <1,000                           | <20,000                        | <20,000                             | <2,000                               | <20,000                        | <10,000                         |
|                                  | 2/13/2013    | Free Product   |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 10/1/2013    | <40,000        | <2,000                               | <1,000                           | <20,000                        | <20,000                             | <2,000                               | <20,000                        | <10,000                         |
|                                  | 7/29/2014    | <50,000        | <2,500                               | <1,250                           | <25,000                        | <25,000                             | <2,500                               | <25,000                        | <12,500                         |
| 07960 - MW23                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW24                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

TABLE 3B  
GROUNDWATER ANALYTICAL DATA<sup>1</sup>  
EIGHT OXYGENATES  
378 TRUCK STOP

| Well ID                          | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|----------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>  | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |
| 07960 - MW25                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 136                            | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW26                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW27                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/30/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW28                     | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/30/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - MW29                     | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | 347                                 | <10.0                                | <b>3,630</b>                   | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | 408                                 | <10.0                                | <b>3,620</b>                   | <50.0                           |
|                                  | 7/30/2014    | <200           | <10.0                                | 2.3J                             | <100                           | 147                                 | <10.0                                | <b>4,050</b>                   | <50.0                           |
| 07960 - MW30                     | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <1,000         | <50.0                                | <25.0                            | <500                           | <b>618</b>                          | <50.0                                | <b>1,880</b>                   | <250                            |
|                                  | 7/29/2014    | <1,000         | <50.0                                | <25.0                            | <500                           | <500                                | <50.0                                | <b>1,690</b>                   | <250                            |
| 07960 - MW31                     | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | 69.8J                               | <10.0                                | <b>509</b>                     | <50.0                           |
|                                  | 7/28/2014    | <500           | <25.0                                | <12.5                            | <250                           | <250                                | <25.0                                | <b>678</b>                     | <125                            |
| 07960 - TW1                      | 10/18/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>1,180</b>                   | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | 1.8 J                            | <100                           | <100                                | <10.0                                | <b>1,000</b>                   | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>871</b>                     | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>899</b>                     | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | 2.3J                             | <100                           | 111                                 | <10.0                                | <b>1,040</b>                   | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | 1.8J                             | <100                           | <100                                | <10.0                                | <b>1,230</b>                   | <50.0                           |
| 07960 - TW2                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 95.4 J                         | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 184                            | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 77.9J                          | <50.0                           |
| 07960 - TW3                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 135                            | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 3B**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|----------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| <b>Action Levels<sup>5</sup></b> |              | <b>10,000</b>  | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |
| 07960 - TW4                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - TW5                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>368</b>                     | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - TW6                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - TW7                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - TW8                      | 10/19/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - TW9                      | 12/6/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/19/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/28/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960 - TW10                     | 12/2/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 12/2/2010    | Abandoned      |                                      |                                  |                                |                                     |                                      |                                |                                 |
| 07960-WSW1 pre GAC6              | 11/18/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | 8.3 J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <1.0                             | <100                           | 39.2J                               | <10.0                                | 145                            | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW1 post GAC              | 11/18/2010   | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <1.0                             | <100                           | 34.5J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW2                       | 12/8/2010    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/20/2011    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | Not Sampled    |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 2/13/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 3B**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L)   | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|--|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>  | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |
| 07960-WSW3                       | 12/8/2010    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 5/3/2011     | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200   | <10.0                                | <1.0                             | <100                           | 29.3J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW4                       | 12/8/2010    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200   | <10.0                                | <1.0                             | <100                           | 31.5J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW5                       | 12/8/2010    | Not sampled for oxygenates. Well pump electric disconnected. |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 4/21/2011    | Well pump not operational, could not collect sample          |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 8/29/2011    | Not Sampled  |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200   | <10.0                                | <1.0                             | <100                           | 30.2J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW6                       | 12/8/2010    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 10/1/2013    | <200   | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW7                       | 12/8/2010    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200   | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW8 pre GAC7              | 11/12/2010   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>262</b>                     | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200   | <200                                 | <1.0                             | <100                           | <100                                | <10.0                                | 142                            | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW8 post GAC              | 11/12/2010   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200   | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | 132                            | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW9                       | 12/8/2010    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200   | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW10                      | 12/8/2010    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200   | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |



**TABLE 3B**  
**GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L)  | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|---|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>   | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                      | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |
| 07960-WSW11                      | 12/8/2010    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200  | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW12                      | 12/8/2010    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | Well pump not operational, could not collect sample       |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 8/29/2011    | Well pump not operational, could not collect sample       |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 2/13/2013    | Well pump not operational, could not collect sample       |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 9/30/2013    | <200  | <10.0                                | <1.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW13                      | 12/8/2010    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 4/21/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200  | <10.0                                | <1.0                             | <100                           | 29.6J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW14                      | 12/8/2010    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                                  | 4/21/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200  | <10.0                                | <1.0                             | <100                           | 30.7J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| 07960-WSW15                      | 12/8/2010    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/2011    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 2/13/2013    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 9/30/2013    | <200  | <10.0                                | <1.0                             | <100                           | 30.0J                               | <10.0                                | <100                           | <50.0                           |
|                                  | 7/29/2014    | <200  | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

Notes:

1. Analyses for eight oxygenates by EPA Method 8260B.
2. < = Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. J = Estimated value below the laboratory reporting limit.
5. 07960 - TW10 did not produce enough water and was subsequently abandoned following sample collection.
6. 07960-WSW1 GAC installed on 11/18/10.
7. 07960-WSW8 GAC installed on 11/12/10.
8. The ALs are defined in SCDHEC, Department of Health and Environmental Control, Bureau of Land and Waste Management, Underground Storage Tank Program, October 22, 2008, Certification of the Oxygenate Compounds.

**APPENDIX D**  
**Disposal Manifest**

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

|   |  |  |   |                                     |                               |
|---|--|--|---|-------------------------------------|-------------------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>   |  | 1. Generator's US EPA ID No.                   |   | Manifest Document No.               | 2. Page 1 of 1                |
| 3. Generator's Name and Mailing Address   |  | 378 TRUCK STOP<br>731 HWY 378<br>EDGEFIELD, SC |   |                                     |                               |
| 4. Generator's Phone ( )  |  |  |   |                                     |                               |
| 5. Transporter 1 Company Name   |  | 6. US EPA ID Number                            |   | A. State Transporter's ID           |                               |
| GEOLOGICAL RESOURCES, INC   |  |  |   | B. Transporter 1 Phone 704-845-4010 |                               |
| 7. Transporter 2 Company Name   |  | 8. US EPA ID Number                            |   | C. State Transporter's ID           |                               |
| HEPP Transport, LLC   |  |  |   | D. Transporter 2 Phone 910-640-2607 |                               |
| 9. Designated Facility Name and Site Address  |  | 10. US EPA ID Number                           |   | E. State Facility's ID              |                               |
| HEPP, INC<br>303 S. MAULSBY ST<br>WHITEVILLE, NC  |  |  |   | F. Facility's Phone 910-640-2607    |                               |
| 11. WASTE DESCRIPTION   |  |  | 12. Containers                            | 13. Total Quantity                  | 14. Unit Wt./Vol.             |
| a.  |  |  | No.                                       | Type                                |                               |
| Non-Reg. Petroleum Contact Purge Water  |  |  |   | DR                                  | 228.78 GAL                    |
| b.  |  |  |   |                                     |                               |
| c.  |  |  |   |                                     |                               |
| d.  |  |  |   |                                     |                               |
| G. Additional Descriptions for Materials Listed Above   |  |  | H. Handling Codes for Wastes Listed Above |                                     |                               |
| 15. Special Handling Instructions and Additional Information  |  |  |   |                                     |                               |
|   |  |  |   |                                     |                               |
| 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. |  |  |   |                                     |                               |
| Printed/Typed Name  |  |  | Signature                                 |                                     | Date                          |
| W. Scott Ball   |  |  |   |                                     | Month Day Year<br>8   31   17 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials   |  |  |   |                                     |                               |
| Printed/Typed Name  |  |  | Signature                                 |                                     | Date                          |
| Corey Buchanan  |  |  |   |                                     | Month Day Year<br>8   31   17 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials   |  |  |   |                                     |                               |
| Printed/Typed Name  |  |  | Signature                                 |                                     | Date                          |
| Bredy Williams  |  |  |   |                                     | Month Day Year<br>10   5   17 |
| 19. Discrepancy Indication Space  |  |  |   |                                     |                               |
| 20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.   |  |  |   |                                     |                               |
| Printed/Typed Name  |  |  | Signature                                 |                                     | Date                          |
| TERRA COR   |  |  |   |                                     | Month Day Year<br>10   5   17 |

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

**APPENDIX E**  
**Contractor Checklist**

**Contractor Checklist**

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     |     |    | X   |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | X   |    |     |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  |     |    | X   |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   |     |    | X   |
| 12     | Has the primary soil type been described?  |     |    | X   |
| 13     | Have field screening results been described?   |     |    | X   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | X   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | X   |
| 16     | Has the monitoring well installation and development dates been provided?  |     |    | X   |
| 17     | Has the method of well development been detailed?  |     |    | X   |
| 18     | Has justification been provided for the locations of the monitoring wells?   |     |    | X   |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   |     |    | X   |
| 20     | Has the groundwater sampling methodology been detailed?  | X   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | X   |    |     |
| 22     | Has the purging methodology been detailed?   | X   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | X   |    |     |
| 24     | If free-product is present, has the thickness been provided?   |     |    | X   |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | X   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | X   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | X   |    |     |
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |     |    | X   |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X   |    |     |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X   |    |     |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | X   |    |     |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | X   |    |     |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |     |    | X   |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |     |    | X   |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |     |    | X   |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | X   |    |     |
| 45     | Is the laboratory performing the analyses properly certified?  | X   |    |     |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |     |    | X   |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |     |    | X   |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   |     |    | X   |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |     |    | X   |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X   |    |     |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |     |    | X   |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |     |    | X   |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  |     |    | X   |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X   |    |     |

South Carolina  
Underground Storage Tank Program  
378 Truck Stop - UST Permit #07960

Title: Programmatic QAPP  
Revision Number: 3.1

Explanation for missing or incomplete information.



# WILKERSON FUEL COMPANY, INC.

P. O. Box 4483  
Rock Hill, S. C. 29731  
(803) 324-4080

12-9-88  
*llw*

N-41-NO-07966  
AT - RG  
All Tanks.

RECEIVED

NOV 30 1988

GROUND-WATER  
PROTECTION DIVISION

November 29, 1988.

S.c. Dept Of Enviromental Controll  
Attn: Ms. June Bristol  
2600 Bull Street  
Columbia, S. C. 29202.

Dear June,

The tanks at these stations were either bought by Wilkerson Fuel Co., Inc. <sup>flaw</sup> sold to owners of the stations, or have been dug up or filled with concrete. Please let us know if we can be of further assistance to you.

|                    |                    |                        |          |
|--------------------|--------------------|------------------------|----------|
| ✓1. N-17-NO-02879  | Fast Fare          | 301 North, Dillon      | Dug up   |
| x2. N-19-NO-03128  | I-Deal Food        | 82 Lee St, Johnston    | Sold     |
| x3. N-17-NO-02877  | Dillon Exxon       | US 301 Hampton, Dillon | Sold     |
| ✓4. N-41-NO-07960  | 378 Truck Stop     | Hwy 378 W, Saluda SC   | Dug up   |
| ✓5. N-41-NO-07959  | Clyde Deloach      | Hwy 121 S., Saluda     | Concrete |
| ✓6. N-41-NO-07975  | Herrons Groc.      | Rt 2, Saluda SC        | Sold     |
| ✓7. N-41-NO-07974  | H.B.Deloach        | Ward                   | Sold     |
| ✓8. N-41-NO-07973  | Little Riv.Landing | Rt 1, Saluda           | Sold     |
| ✓9. N-35-NO-06440  | Seigler's Groc.    | Hwy 221, Plum Branch   | Sold     |
| x10. N-41-NO-07962 | Smith Stop&Shop    | Rt. 2, Hwy 178         | Sold     |

(1)

UST Docket

113T





# WILKERSON FUEL COMPANY, INC.

P. O. Box 4483  
Rock Hill, S. C. 29731  
(803) 324-4080

(cont'd)

|      |               |                      |                         |                     |
|------|---------------|----------------------|-------------------------|---------------------|
| 11.  | N-38-NO-06942 | Neeses Gulf          | Neese, SC               | Dug up              |
| x12. | N-38-NO-06998 | Jerry's Gulf         | US 321, North S.C.      | <del>W</del> Dug up |
| 13.  | N-46-NO-09325 | Lyle's Gulf          | 1308 E. Main, Rock Hill | Dug up              |
| x14. | N-46-NO-09330 | Disc. Pet Food       | 661 Anderson RD, R.H.   | Dug up              |
| 15.  | N-46-NO-09418 | RH Country Club      | Box 956, R.H.           | Sold                |
| x16. | N-46-NO-09432 | PleasantValley Groc. | Rt. 2, Fort Mill, SC    | Sold                |
| x17. | N-46-NO-09429 | York/Clover Concrete | York, S.C.              | They own            |
| 18.  | N-46-NO-09443 | S&F Groaery          | Rt 3, Rock Hill, SC     | Sold                |
| ✓19. | N-38-NO-06934 | Orangeburg, SC       | Dorchester Ave.         | Orangeburg          |

Sincerely,

Frank M. Wilkerson  
Wilkerson Fuel Co., Inc.

cc: file

---



# WILKERSON FUEL COMPANY, INC.

P. O. Box 4483  
Rock Hill, S. C. 29731  
(803) 324-4080

November 29, 1988.

S.C. Dept of Enviromental Controll  
Attn: Ms. June Bristol  
2600 Bull Street  
Columbia, S. C. 29202.

Dear June,

These stations need to be transferred from the former owners into Wilkerson Fuel Co., Inc., name. Please let us know if we can be of further assistance regarding this matter.

- |      |               |   |
|------|---------------|---|
| 1.   | N-17-NO-02874 | Fast Fare-US 301 & Main, Latta, S.C.                  |
| 2.   | N-33-NO-06225 | Fords Grocery, Rt. 1 Box 45, Dillon, SC               |
| 3.   | N-17-NO-02878 | Ready Mart #2, E.Main St., Dillon, SC                 |
| 4.   | N-17-NO-02856 | Ready Mart #1, Route 3, Dillon, SC                    |
| 5.   | N-17-NO-02807 | The Rogers Co., Route 1 Box 588, Lakeview, SC         |
| 6.   | N-35-NO-06439 | Hwy 221-378, McCormick, S.C.                          |
| 7.   | N-41-NO-07961 | Black's Groc., Hwy 378, Saluda, S.C.                  |
| 8.   | N-19-NO-03117 | Covars 66, Hwy 25, Edgefield, S.C.                    |
| 9.   | N-24-NO-04713 | McAllister's, Hwy 25 S., Greenwood, SC                |
| 10.  | N-41-NO-07963 | P&O Oil Co., 401 Greenwood Hwy, Saluda, SC            |
| X11. | N-19-NO-00152 | Bonner's Gulf, 1007 SandBar Ferry Rd, BlackIsland, SC |
| 12.  | N-19-NO-03124 | Trenton Quick Stop, Hwy 121, Trenton, SC              |
| 13.  | N-02-NO-00096 | Lynnhurst Gulf, 469 Martintown Rd, N. Augusta, SC     |
| 14.  | N-02-NO-00052 | Taylor's Gulf, 147 Hickman St., Graniteville, SC      |

Sincerely,

Frank M. Wilkerson, Jr.  
Wilkerson Fuel Co., Inc.

cc: file

*MW 7' All Tanks*

*E*

**RECEIVED**

JAN 24 1986

*INSUF ADD & NO ZIP*



South Carolina Department of Health and Environmental Control  
Columbia, South Carolina 29201

**Notification for Underground Storage Tanks in Operation**

GROUND-WATER PROTECTION DIVISION

|   |   |  |  |
|---|---|--|--|
| <p>1. Name and address of the facility</p> <p>378 Truck Stop<br/>Highway 378 West<br/>Saluda, S. C.</p> | <p>2. Business mailing address of facility, if different from location address</p> <p>378 Truck Stop<br/>Route 2<br/>Edgefield, S. C. 29824</p> | <p>3. Owner of tank (name, business address, and phone number)</p> <p>P. &amp; O. Oil Company, Inc.<br/>401 Greenwood Highway<br/>Saluda, S. C. 29138<br/>PH: 445-8087</p> | <p>4. Contact person for the facility (Name and phone number)</p> <p>Jolly Owdom or<br/>Mildred Griffith</p> |
|---|---|--|--|

5. Owner (Mark "X" in appropriate box)

Non-Federal     Federal (Give GSA #)

6. For State Use Only

*N-41-NO-07960*

Complete the following section(s) to the best of your knowledge using the examples provided as guidance. Check appropriate boxes and fill in blanks where applicable. If you need more space, photocopy this page or use a continuation sheet.

| 7. Age (years) |    |    |    |    | 8. Total capacity (gallons) | 9. Material of construction |                               |                 | 10. Internal protection |         |        | 11. External protection |                     |                 |   | 12. Substance type     |        |          |                 |  |
|----------------|----|----|----|----|-----------------------------|-----------------------------|-------------------------------|-----------------|-------------------------|---------|--------|-------------------------|---------------------|-----------------|---|------------------------|--------|----------|-----------------|--|
| 9              | 10 | 11 | 18 | 20 |                             | Steel                       | Fiberglass reinforced plastic | Other (specify) | Lined                   | Unlined | Coated | Wrapped                 | Cathodic protection | Other (specify) | Hazardous substance name and/or Chemical Abstract Service (CAS) # if known. | 13. Petroleum products |        |          |                 |  |
|                |    |    |    |    |                             |                             |                               |                 |                         |         |        |                         |                     |                 |   | Gasoline               | Diesel | Kerosene | Other (specify) |  |
|                |    |    |    |    | 10,000                      | P                           | T                             |                 | X                       |         |        |                         |                     |                 |   |                        |        |          | X               |  |
|                |    |    |    |    | 8,000                       | TP                          |                               |                 | X                       |         |        |                         | TP                  |                 | Trichloroethylene<br>CAS #79016   |                        |        |          |                 |  |
|                |    |    | X  |    | 2000                        | TP                          |                               |                 | X                       |         |        |                         |                     |                 |   | X                      |        |          |                 |  |
|                |    |    | X  |    | 1000                        | TP                          |                               |                 | X                       |         |        |                         |                     |                 |   | X                      |        |          |                 |  |
|                |    |    |    |    | 550                         | TP                          |                               |                 | X                       |         |        |                         |                     |                 |   |                        | X      |          |                 |  |

14. Certification

I, under penalty of law 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 immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

15. Name and Official Title of owner or owner's authorized representative (Type or print)

*Mildred W. Griffith Sec.*

16. Date signed

*1-16-86*

GROUND-WATER CONTAMINATION INVENTORY  
SOUTH CAROLINA - 1989

| CONTAMINATION INCIDENT          | TYPE OF CONTAMINATION | SOURCE OF CONTAMINATION | SCDHEC BUREAU+ | REMARKS   |
|---------------------------------|-----------------------|-------------------------|----------------|---|
| Egg Roll Express                | PETROPROD             | UST                     | DWP            | Trust Fund assessment.  |
| Emro Site                       | PETROPROD             | UST                     | DWP            | In assessment phase.  |
| Fast Fare #670                  | PETROPROD             | UST                     | DWP            | In assessment phase. Remediation required.  |
| Gulf - Summerville Station      | PETROPROD             | UST                     | DWP            | In assessment phase. Remediation necessary.   |
| Jenny's Truck Stop              | PETROPROD             | UST                     | DWP            | In assessment phase. Remediation required.  |
| Johnson Bronze++                | METALS                | UPD                     | DWP            | Contamination source has been removed. Minimal impact now exists.   |
| Majik Market #42804             | PETROPROD             | UST                     | DWP            | In assessment phase.  |
| Pantry #593 - Summerville       | PETROPROD             | UST                     | DWP            | In remediation phase.   |
| Robert Bosch Corporation        | VOC,PETROPROD         | S/L                     | WPC            | In assessment and monitoring phase.   |
| Rosa Small Well Contamination++ | PETROPROD             | UST                     | DWP            |   |
| Unisys Corporation              | VOC                   | UST                     | DWP            | Remedial action is being planned.   |
| <b>** EDGEFIELD</b>             |                       |                         |                |   |
| Amoco Oil Co.                   | PETROPROD             | AGT                     | DWP            | In assessment and remediation phase.  |
| Colonial Pipeline Company       | PETROPROD             | DWP,S/L                 |                | Possible tank or pipeline leak.   |
| Covington Private well++        | PETROPROD             | DWP                     |                | Source of contaminant is undetermined. Recommendations for clean-up and alternate water supply offered to owner.  |
| Edgefield County LF DWP-040     | NO3                   | LF                      | SNW            | New wells installed (10/86). Facility is in assessment phase.   |
| Gulf/BP Oil Co.                 | PETROPROD             | AGT,S/L                 | DWP            | In assessment phase.  |
| Morrison/Williams/Yonce wells++ | P/H                   | UNK                     | DWP            | Low level of nematocide confirmed in several private and SCDHEC wells. DBCP ban issued by EPA. Recommendations for alternate water supply were offered to owners. |
| Scurry Private well++           | PETROPROD             | S/L                     | DWP            | Well is being monitored.  |
| Southern Fac. Terminal (Conoco) | PETROPROD             | AGT,S/L                 | DWP            | Possible offsite source. In assessment and monitoring phase.  |



**MR FRANK WILKERSON  
PO BOX 2835  
ROCK HILL SC 29732**

**FEB 05 2018**

**Re: Aggressive fluid and vapor recovery (AFVR) directive  
378 Truck Stop, 731 Highway 378, Edgefield, SC  
UST Permit #07960; CA #56178  
Release reported October 03, 1974  
Edgefield County**

Dear Mr. Wilkerson:

On behalf of the South Carolina Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division recognizes your commitment to continue work at this site using Geological Resources, Inc. The next appropriate remedial activity is to continue aggressive fluid and vapor recovery (AFVR) to reduce ground-water concentrations of chemicals of concern (CoC). Please have your contractor conduct two 96-hour AFVR events on monitoring wells MW-1, MW-3 and MW-7 the second on MW-22 and MW-12. The events must be conducted in accordance with your contractors Annual Contractor Quality Assurance Plan (ACQAP). A copy of QAPP Revision 3.1 is available at [http://www.scdhec.gov/Environment/docs/DHEC%20UST%20QAPP\\_Rev-3.1\(2\).pdf](http://www.scdhec.gov/Environment/docs/DHEC%20UST%20QAPP_Rev-3.1(2).pdf).

**Please notify the UST Management Division prior to commencing AFVR at the site. The stingers must be advanced to a target depth of based on the historical low water table within the first 8 hours of the event. Thereafter, the stingers should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary.**

Cost Agreement (CA) #56178 has been approved in the amount shown on the enclosed cost agreement form for the AFVR event. Please note that all applicable South Carolina certification requirements apply to the report preparation. Further, all site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

An AFVR report and invoice are due within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from DHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by DHEC.

in order for the costs to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The UST Management Division grants pre-approval for transportation of petroleum-contaminated, investigative-derived waste (IDW) from the referenced site to a permitted treatment/disposal facility. The transport and disposal must be conducted in accordance with QAPP Revision 3.1.

On all correspondence concerning this facility, please reference UST Permit #07960. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-7705, by fax at (803) 898-0673, or by e-mail at [johnson@dhec.sc.gov](mailto:johnson@dhec.sc.gov).

Sincerely,



Austin Johnson  
Geologist/Hydrologist  
Corrective Action & Quality Assurance Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110 (w/enc)  
Technical file (w/enc)

**Approved Cost Agreement      56178**

Facility: 07960    378 TRUCK STOP

JOHNSOAL

PO Number

| <u>Task / Description</u> | <u>Categories</u>              | <u>Item Description</u>      | <u>Qty / Pct</u> | <u>Unit Price</u>   | <u>Amount</u>    |
|---------------------------|--------------------------------|------------------------------|------------------|---------------------|------------------|
| 19                        | RPT/PROJECT MNGT & COORDINATIO |                              |                  |                     |                  |
|                           |                                | PRT REPORT PREPARATION       | 0 1200           | \$45,078.000        | 5,409.36         |
| 23                        | EFR                            |                              |                  |                     |                  |
|                           |                                | A4 96 HOUR EVENT             | 2 0000           | \$12,567.500        | 25,135.00        |
|                           |                                | C4 OFF GAS TREATMENT 96 HOUR | 2.0000           | \$780.000           | 1,560.00         |
|                           |                                | F1 EFFLUENT DISPOSAL         | 40,000.0000      | \$0.440             | 17,600.00        |
|                           |                                | G AFVR EQUIPMENT MOB         | 2 0000           | \$391.500           | 783.00           |
|                           |                                |                              |                  | <b>Total Amount</b> | <b>50,487.36</b> |

South Carolina Department of Health  
and Environmental Control

GW-19-251 T-14-N2  
10/14

7 Tanks, 3 removed  
1 installed

2600 Bull Street  
Columbia, S.C. 29201

Commissioner  
Michael D. Jarrett

Upper Savannah District  
Environmental Quality Control  
P-129/One Park Avenue  
Greenwood, S.C. 29646  
(803) 223-0333



RECEIVED

MAR 26 1990

Board  
Moses H. Clarkson, Jr., Chairman  
Gerald A. Kaynard, Vice-Chairman  
Oran B. Brady, Jr., Secretary  
Barbara P. Nussle  
James A. Spruill, Jr.  
William H. Hester, M.D.  
Euta M. Colvin, M.D.

MEMORANDUM GROUND-WATER  
PROTECTION DIVISION

TO: Jim Hess  
Bureau of Drinking  
Water Protection

FROM: Billy Outpre  
Upper Savannah District  
SUBJECT: UST location /

DATE: 3-19-90

contaminated wells - Edgely  
County

In a recent conversation with Reggie Massey of this office, he reminded me of a situation which he was made aware of many years ago. This situation was discovered prior to the regulation of USTs by the state or federal government. At one time, this office also contacted others within DHEC to try to resolve the problem of contaminated wells in this area. See attached documentation.

I went to the location on February 9, 1990. The person at the store at the time told me that the underground tanks were no longer in operation; however, Mr. Massey told me that he believes the tanks are in operation. The person at the store in February told me the tanks are owned by a



MEMORANDUM

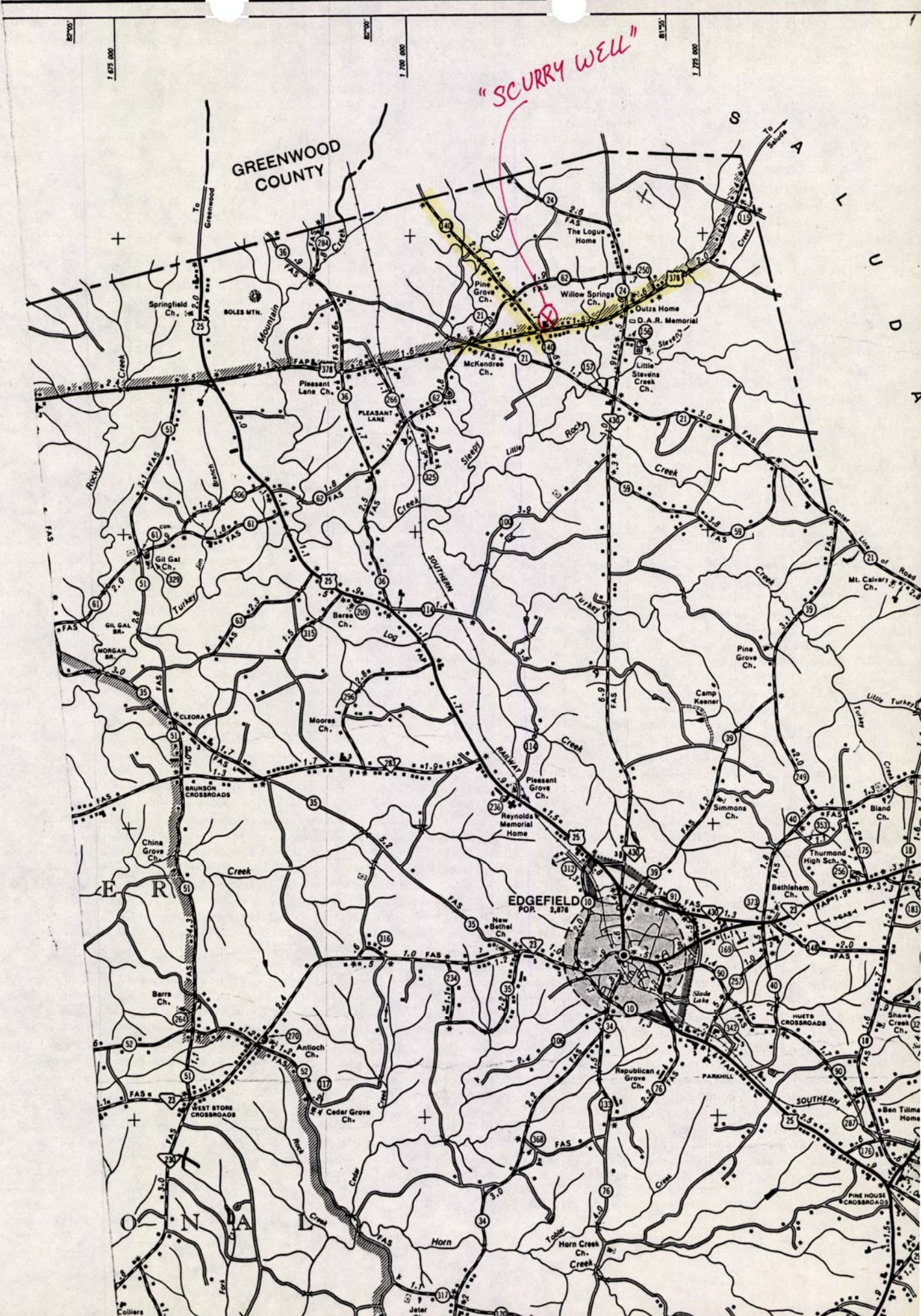
CONTINUATION PAGE # 1

TO: Jim Hess (3-19-90)

Jolly Owdom. After several phone  
calls, I found that Mr. Owdom can  
be contacted by calling Covari's Phillips 66  
in Edgefield at 637-5440 (736 Augusta  
Road) during the day and can be  
contacted at home at 637-6796 or  
Route 2, Box 74, Edgefield. With other  
more immediate work to do, it is  
difficult to find time to fully follow-  
up on this problem in the near future  
If your personnel could assist in follow-up  
on this problem, it will be greatly  
appreciated.

The ~~problem's~~ problem's source is  
within 100 yards of the intersection  
of SR 140 and Hwy 378 at the location  
shown on the attached map.

Copy to Massey, Paul Bristol



"SCURRY WELL"

GREENWOOD COUNTY

EDGEFIELD  
POP. 2,878

ONDALA

Springfield Ch.

SOLES MTH.

Pine Grove Ch.

Outz Home

D.A.R. Memorial

Little Stevens Creek Ch.

Pleasant Lane Ch.

McKendree Ch.

Gil Gal Ch.

Berra Ch.

Pleasant Grove Ch.

Pine Grove Ch.

Camp Keener

Simmons Ch.

China Grove Ch.

Reynolds Memorial Home

Thurmond High Sch.

Berra Ch.

Antioch Ch.

Republican Grove Ch.

Ben Tills Home

West Stone Crossroads

Cedar Grove Ch.

Horn Creek Ch.

Pine House Crossroads

Colliers

Jeter

Horn Creek Ch.

Ben Tills Home

1 675 000

1 700 000

1 775 000

P-41-NO-10143 - 7-7-86 - 9-4-86.  
P 41 NO 07960 - 378 TRUCK STOP - Fees Not Pd.  
07959 - DeLoch Gro  
07979 " "  
07962 Smith's Stop+Shop Fee Not Pd.

---

Jolly Odom / Mildred Griffith 803-445-8087



**Geological Resources, Inc.**

March 22, 2018



Mr. Austin Johnson, Hydrogeologist  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201-1708



Re: AFVR Report  
378 Truck Stop  
731 Highway 378  
Edgefield, Edgefield County, South Carolina  
UST Permit #07960  
Cost Agreement #56178  
GRI Project No. 4422

Dear Mr. Johnson:

This report presents the results of AFVR activities conducted in March 2018 at the above referenced site. The activities were conducted in general accordance with the requirements outlined in correspondence from the SCDHEC dated February 5, 2018 and addressed to Mr. Frank Wilkerson. The purpose of the activities was to remove free product and/or dissolved phase contaminants from monitoring wells MW-1, MW-3, MW-7, MW-12 and MW-22. Monitoring wells MW-2, MW-4, MW-21, MW-29, MW-13, MW-14, MW-15 and MW-30 were used as an observation wells during the events.

The following Figures, Tables and Appendix have been included:

Figure 1: Site Location Map  
Figure 2: Site Map

Table 1A: AFVR Event Chronology (3/5/18 – 3/9/18)  
Table 1B: AFVR Event Chronology (3/9/18 – 3/13/18)  
Table 2: AFVR Event Gauging Data

Appendix A: AFVR Reports, Calculations, Disposal Manifests/Stick Readings, Tank Charts

GRI personnel visited the site to obtain right-to-enter agreements from the current property owners on February 19, 2018.

The AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site on March 5, 2018 to conduct the first of two 96-hour AFVR events at the site. The AFVR event was conducted on monitoring wells MW-1, MW-3 and MW-7. General weather conditions were sunny/fair

**3502 Hayes Road • Monroe, North Carolina 28110**  
**113 West Firetower Road, Suite G • Winterville, North Carolina 28590**  
**Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012**

AFVR Report  
378 Truck Stop  
UST Permit #07960

with an ambient air temperature of approximately 55°F at the time of system start-up. No free product was observed in monitoring wells MW-1, MW-3 or MW-7 prior to system startup. Fluid recovery activities using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute were conducted for 96 hours on MW-1, MW-3 and MW-7. During the course of the event, the vacuum at the well ranged from 20 to 22 in. Hg. Please note that the vacuum truck was equipped with an activated charcoal filter for off-gas treatment of vapor phase hydrocarbons. A total of 5,796 gallons of liquid was removed during the event. Based on data collected during the AFVR event, an estimated total of 14.0266 pounds (approximately 2.24 gallons) of product was removed in the vapor phase. No measurable free product was present in the tanker or the vacuumed wells at the conclusion of the event.

The AFVR contractor, HERR began the second 96-hour AFVR event at the site on March 9, 2018. The AFVR event was conducted on monitoring wells MW-12 and MW-22. General weather conditions were sunny/fair with an ambient air temperature of approximately 56°F at the time of system start-up. No free product was observed in monitoring wells MW-12 or MW-22 prior to system startup. Fluid recovery activities using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute were conducted for 96 hours on MW-12 and MW-22. During the course of the event, the vacuum at the well remained steady at 25 in. Hg. Please note that the vacuum truck was equipped with an activated charcoal filter for off-gas treatment of vapor phase hydrocarbons. A total of 1,263 gallons of liquid was removed during the event. Based on data collected during the AFVR event, an estimated total of 5.3911 pounds (approximately 0.86 gallons) of product was removed in the vapor phase. No measurable free product was present in the tanker or the vacuumed wells at the conclusion of the event.

Please do not hesitate to contact the undersigned at (704) 845-4010 if you have any questions or comments concerning this project.

Sincerely,  
Geological Resources, Inc.



W. Scott Ball  
Project Manager



John M. Brown, P.G.  
License No. 1116  
Professional Geologist

Enclosures

cc: Frank Wilkerson  
file

## **FIGURES**

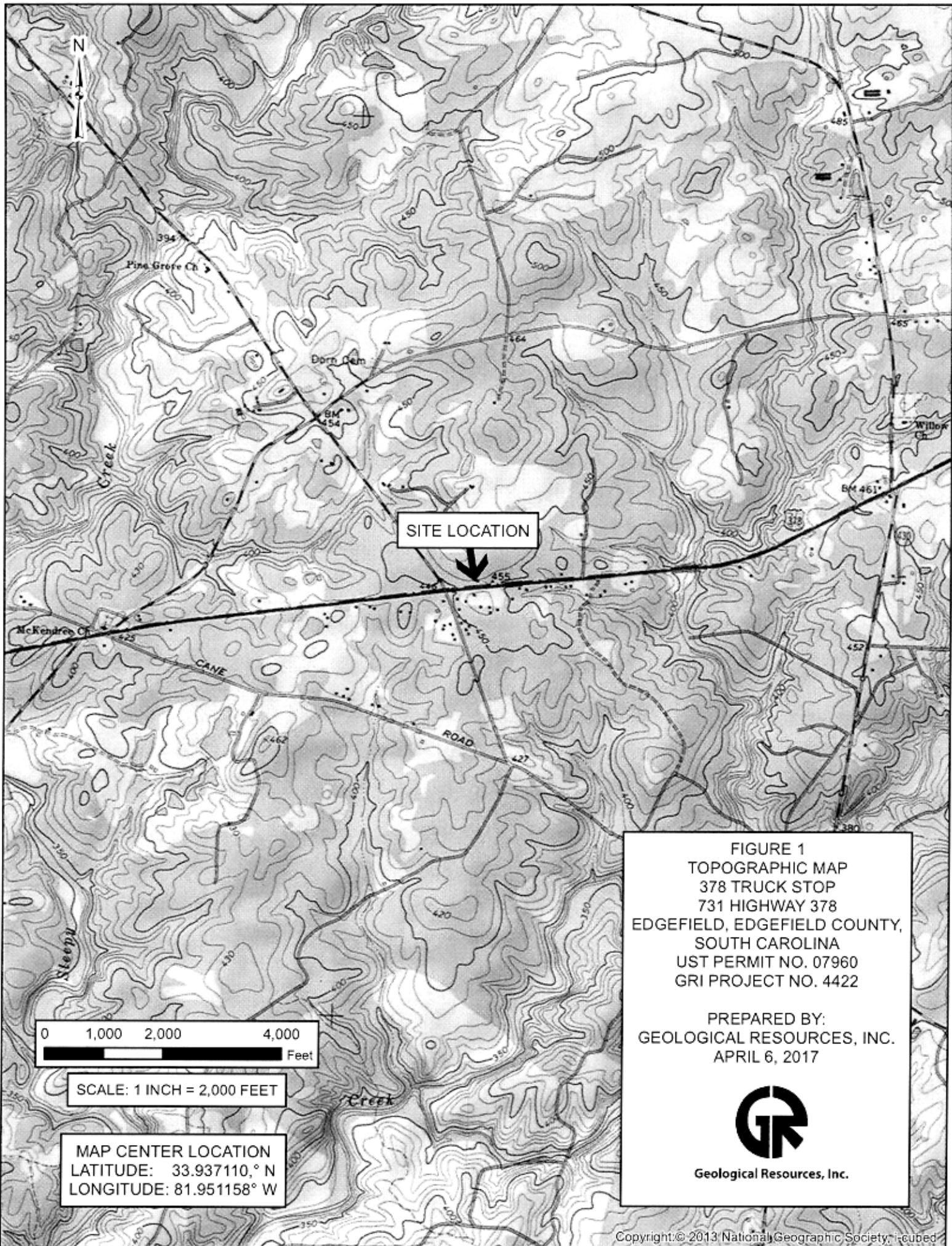


FIGURE 1  
TOPOGRAPHIC MAP  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, EDGEFIELD COUNTY,  
SOUTH CAROLINA  
UST PERMIT NO. 07960  
GRI PROJECT NO. 4422

PREPARED BY:  
GEOLOGICAL RESOURCES, INC.  
APRIL 6, 2017

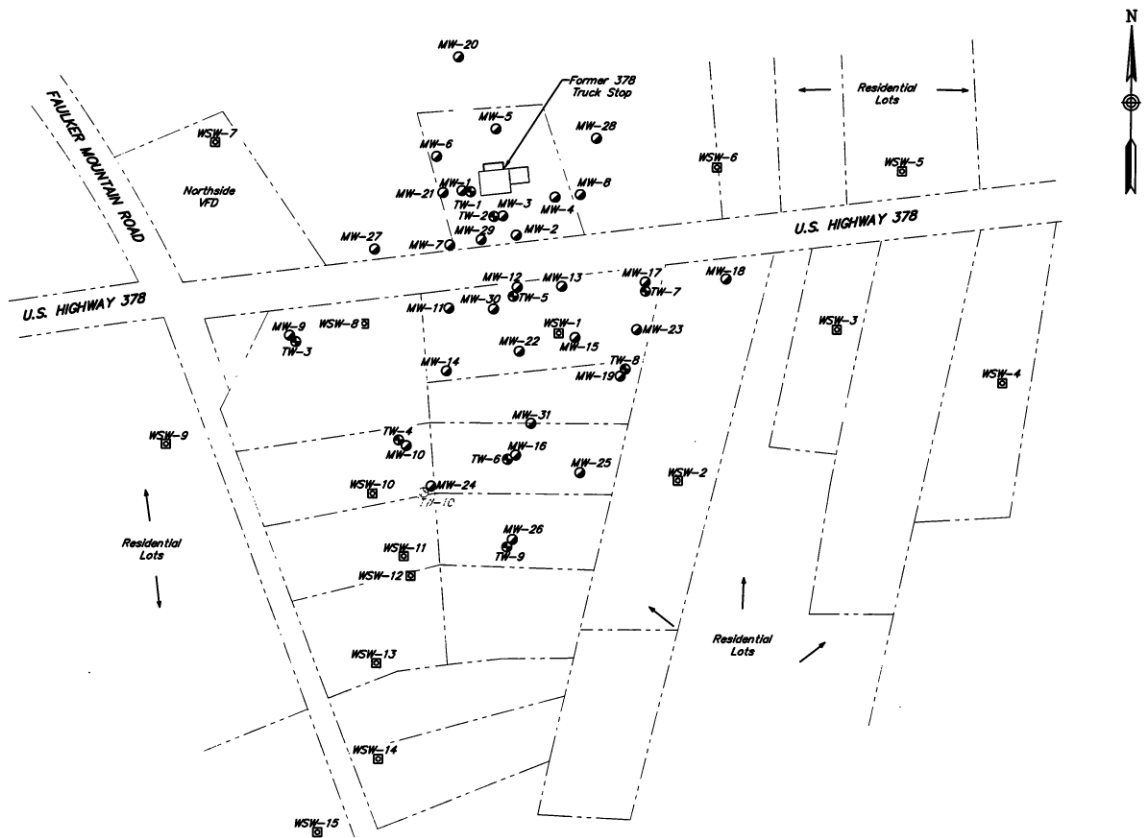


Geological Resources, Inc.

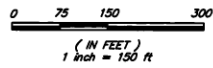
**LEGEND**

- TYPE II MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ABANDONED MONITORING WELL
- ⊠ WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT

Note: This Site Map is based on the former consultant's map dated October 17, 2013.



Geological Resources, Inc.



| SITE MAP             |                              |         |   |
|----------------------|------------------------------|---------|---|
| 378 Truck Stop       | 731 Highway 378              |         |   |
| UST Permit No. 07960 | Edgefield, Edgefield County, |         |   |
| GRI Project No. 4422 | SC                           |         |   |
| Date: 08/29/17       | Drawn by: DTH                | Figure: | 2 |



## **TABLES**

**TABLE 1A  
AFVR EVENT CHRONOLOGY  
378 TRUCK STOP  
UST PERMIT #07960  
MARCH 5-9, 2018**

| <b>Task</b>   | <b>Hours</b>                     | <b>Personnel</b>      | <b>Equipment</b> | <b>Company</b> |
|---|----------------------------------|-----------------------|------------------|----------------|
| Gauge Liquid Levels in MW-1, MW-3 & MW-7                  | 8:15<br>03/05/18                 | Vacuum Truck Operator | Interface Probe  | HERR           |
| Vacuum Truck Setup for Fluid Removal in MW-1, MW-3 & MW-7 | 8:00-8:30<br>03/05/18            | Vacuum Truck Operator | Vacuum Truck     | HERR           |
| Fluid Recovery in MW-1, MW-3 & MW-7                       | 8:30 03/05/18 -<br>8:30 03/09/18 | Vacuum Truck Operator | Vacuum Truck     | HERR           |
| Gauge Liquid Levels in MW-1, MW-3 & MW-7                  | 8:45<br>03/09/18                 | Vacuum Truck Operator | Interface Probe  | HERR           |

**TABLE 1A  
AFVR EVENT CHRONOLOGY  
378 TRUCK STOP  
UST PERMIT #07960  
MARCH 9-13, 2018**

| <b>Task</b>   | <b>Hours</b>                       | <b>Personnel</b>      | <b>Equipment</b> | <b>Company</b> |
|---|------------------------------------|-----------------------|------------------|----------------|
| Gauge Liquid Levels in MW-12 & MW-22                  | 10:15<br>03/09/18                  | Vacuum Truck Operator | Interface Probe  | HERR           |
| Vacuum Truck Setup for Fluid Removal in MW-12 & MW-22 | 10:00-10:30<br>03/09/18            | Vacuum Truck Operator | Vacuum Truck     | HERR           |
| Fluid Recovery in MW-12 & MW-22                       | 10:30 03/09/18 -<br>10:30 03/13/18 | Vacuum Truck Operator | Vacuum Truck     | HERR           |
| Gauge Liquid Levels in MW-12 & MW-22                  | 10:45<br>03/13/18                  | Vacuum Truck Operator | Interface Probe  | HERR           |

**TABLE 2  
AFVR EVENT GAUGING DATA  
378 TRUCK STOP  
UST PERMIT #07960**

| <b>Well No.</b> | <b>Date</b> | <b>Time</b> | <b>Depth to Free Product</b> | <b>Depth to Ground Water</b> | <b>Free Product Thickness</b> |
|-----------------|-------------|-------------|------------------------------|------------------------------|-------------------------------|
| MW-1            | 03/05/18    | 8:15        | ---                          | 23.11                        | ---                           |
|                 | 03/09/18    | 8:45        | ---                          | 27.81                        | ---                           |
| MW-3            | 03/05/18    | 8:15        | ---                          | 26.58                        | ---                           |
|                 | 03/09/18    | 8:45        | ---                          | 31.27                        | ---                           |
| MW-7            | 03/05/18    | 8:15        | ---                          | 24.80                        | ---                           |
|                 | 03/09/18    | 8:45        | ---                          | 29.50                        | ---                           |
| MW-12           | 03/09/18    | 10:15       | ---                          | 32.55                        | ---                           |
|                 | 03/13/18    | 10:45       | ---                          | 33.90                        | ---                           |
| MW-22           | 03/09/18    | 10:15       | ---                          | 34.50                        | ---                           |
|                 | 03/13/18    | 10:45       | ---                          | 37.12                        | ---                           |

Notes:

- All data reported in feet.

## **APPENDIX**

**APPENDIX A**

**AFVR Reports, Calculations, Disposal Manifests/Stick Readings, Tank Chart**



**HAZMAT EMERGENCY RESPONSE AND REMEDIATION, INC.**

**PO Box 2345 · 303 South Mauldsby Street · Whiteville, NC 28472 · Phone: 910-640-2607  
Fax: 910-640-2609 · e-mail: herrteam@hotmail.com · www.herrteam.com**

Friday, March 16, 2018

Scott Ball  
Geological Resources, Inc.  
3502 Hayes Rd  
Monroe, NC 28110

Re: Site Name: Former 378 Truck Stop  
Edgefield, SC  
UST Permit #: 07960

Scott,

Hazmat Emergency Response and Remediation, Inc. (HERR) completed one 96 hour Aggressive Fluid Vapor Recovery (AFVR) event at the above site on March 5-9, 2018. Included is the documentation for the event. The 96 hour event was conducted on monitoring wells MW-1, MW-3, and MW-7.

If you have any questions, please do not hesitate to contact our office.

Sincerely,

Marc Cox  
HERR Project Manager

Former 378 Truck Stop  
Edgefield, SC  
March 5-9, 2018

### **AFVR**

HERR mobilized personnel and equipment to Former 378 Truck Stop on 3/5/18. The ambient temperature was 55 deg F and weather conditions were sunny/fair. The depths to product and water were measured prior to and subsequent to the AFVR event. Stinger depth was lowered at six inch intervals starting at the water table interface until the target depth was reached (See attached data). Personnel from Geological Resources, Inc. (GRI) were on site to supervise the event.

The 96 Hour AFVR event was conducted using a Global Vacuum Liquid Ring Pump with off gas treatment through a vapor phase granular activated carbon scrubber. The vacuum unit is capable of providing 325 CFM at 25 inches of mercury.

### **Pollutant Mass Removal**

Total weight of 14.0266 pounds of petroleum in the vapor phase (total non-methane organic emissions) was removed during the 96 hour AFVR event. This amount is based on data collected during the AFVR event (see attached data sheets)

### **Liquid Disposal**

Approximately 5,796 gallons of petroleum contact water was collected during the AFVR event (See attached disposal manifest)



## **APPENDICES**

- A. AFVR FIELD NOTES**
- B. POLLUTANT MASS REMOVAL DATA SHEET**
- C. LIQUID DISPOSAL MANIFEST**

**APPENDIX A**

**AFVR FIELD NOTES**

**HERR, Inc.**

**AFVR – Field Notes**

(Farmer)  
 Site Name: 378 Truck Stop Location: Edgefield, SC  
 AFVR Contractor: HERR, Inc Personnel: Steve & Dale  
 Date: 3-5 - 3-9 Ambient Air Temperature and General Weather Condition: 55° Sunny - Fair  
 Start Time 1: 8:30 Stop Time 1: 8:30 Start Time 2: \_\_\_\_\_ Stop Time 2: \_\_\_\_\_  
 Total volume of water removed during the AFVR Event: 5,796  
 Total volume of product removed during the AFVR Event: NO Free Product  
 Product Recovery Rate: \_\_\_\_\_

| Monitoring Well | Depth to product prior to stinger placement (ft. below TOC) | Depth to water prior to stinger placement (ft. below TOC) | Depth to product at cessation of vacuuming (ft. below TOC) | Depth to water at cessation of vacuuming (ft. below TOC) | Estimated volume of water removed during this event | Relevant Observations |
|-----------------|---|---|--|--|---|-----------------------|
| MW 3            | ---   | 26.58   | ---  | 31.27  | 5,796 gal   |                       |
| MW 1            | ---   | 23.11   | ---  | 27.87  |   |                       |
| MW 7            | ---   | 24.20   | ---  | 29.50  |   |                       |
|                 |   |   |  |  |   |                       |
|                 |   |   |  |  |   |                       |

4.70

# 378 Truck Stop

①

## Aggressive Fluid/Vapor Recovery Notes

Mom.  
3-5

| Start Time | PID at stack (ppm) | PID after off-gas treatment (carbon) (ppm) | Velocity (ft. / min.) | Temperature (Fahrenheit) | Relative Humidity (%) | PID Calibration |
|------------|--------------------|--|-----------------------|--------------------------|-----------------------|-----------------|
| 8:30       |                    |  |                       |                          |                       | <i>gkr</i>      |
| 9:00       | 371                | 62   | 426                   | 66                       | 71                    | <i>cal.</i>     |
| 9:30       | 378                | 63   | 430                   | 75                       | 71                    |                 |
| 10:00      | 384                | 64   | 433                   | 84                       | 71                    |                 |
| 10:30      | 386                | 64   | 437                   | 94                       | 71                    |                 |
| 11:00      | 389                | 64   | 441                   | 95                       | 71                    |                 |
| 11:30      | 392                | 64   | 445                   | 96                       | 71                    |                 |
| 12:00      | 393                | 65   | 449                   | 96                       | 71                    |                 |
| 12:30      | 395                | 63   | 454                   | 96                       | 71                    |                 |
| 1:00       | 400                | 67   | 460                   | 96                       | 71                    |                 |
| 1:30       | 404                | 67   | 462                   | 96                       | 71                    |                 |
| 2:00       | 408                | 69   | 465                   | 96                       | 71                    |                 |
| 2:30       | 411                | 70   | 468                   | 96                       | 71                    |                 |
| 3:00       | 415                | 73   | 469                   | 96                       | 71                    |                 |
| 3:30       | 419                | 78   | 470                   | 96                       | 71                    |                 |
| 4:00       | 417                | 77   | 473                   | 96                       | 71                    |                 |
| 4:30       | 421                | 80   | 476                   | 96                       | 71                    |                 |
| 5:00       | 422                | 79   | 478                   | 95                       | 72                    |                 |
| 6:00       | 429                | 76   | 482                   | 95                       | 72                    |                 |
| 7:00       | 436                | 74   | 487                   | 95                       | 72                    |                 |
| 8:00       | 441                | 71   | 496                   | 95                       | 73                    |                 |
| 9:00       | 447                | 75   | 508                   | 95                       | 73                    |                 |
| 10:00      | 450                | 82   | 515                   | 94                       | 73                    |                 |
| 11:00      | 451                | 80   | 524                   | 94                       | 73                    |                 |
| 12:00      | 456                | 83   | 530                   | 94                       | 75                    |                 |
|            |                    |  |                       |                          |                       |                 |

②

## Aggressive Fluid/Vapor Recovery Notes

|             | Time  | PID<br>at stack<br>(ppm) | PID<br>after off-gas<br>treatment<br>(carbon)<br>(ppm) | Velocity<br>(ft. / min.) | Temperature<br>(Fahrenheit) | Relative<br>Humidity<br>(%) | PID<br>Calibration |
|-------------|-------|--------------------------|--|--------------------------|-----------------------------|-----------------------------|--------------------|
| Tue<br>3-6  | 8:00  | 556                      | 93   | 608                      | 85                          | 77                          |                    |
|             | 10:00 | 575                      | 95   | 624                      | 95                          | 79                          |                    |
|             | 12:00 | 588                      | 97   | 640                      | 94                          | 80                          |                    |
|             | 2:00  | 608                      | 93   | 659                      | 98                          | 80                          |                    |
|             | 4:00  | 615                      | 91   | 673                      | 99                          | 80                          |                    |
|             | 6:00  | 618                      | 84   | 696                      | 97                          | 80                          |                    |
|             | 8:00  | 615                      | 84   | 715                      | 96                          | 80                          |                    |
|             | 10:00 | 616                      | 82   | 724                      | 95                          | 80                          |                    |
|             | 12:00 | 615                      | 83   | 730                      | 94                          | 80                          |                    |
| Wed.<br>3-7 | 8:00  | 541                      | 76   | 846                      | 89                          | 78                          | 802                |
|             | 10:00 | 530                      | 74   | 859                      | 94                          | 76                          |                    |
|             | 12:00 | 521                      | 72   | 873                      | 95                          | 77                          |                    |
|             | 2:00  | 512                      | 71   | 892                      | 96                          | 77                          |                    |
|             | 4:00  | 496                      | 64   | 904                      | 96                          | 77                          |                    |
|             | 6:00  | 485                      | 67   | 978                      | 89                          | 75                          |                    |
|             | 8:00  | 472                      | 68   | 992                      | 88                          | 75                          |                    |
|             | 10:00 | 458                      | 67   | 1003                     | 87                          | 75                          |                    |
|             | 12:00 | 446                      | 65   | 1016                     | 86                          | 75                          |                    |
| Th.<br>3-8  | 8:00  | 331                      | 53   | 1167                     | 87                          | 72                          |                    |
|             | 10:00 | 319                      | 52   | 1176                     | 92                          | 72                          |                    |
|             | 12:00 | 297                      | 50   | 1184                     | 94                          | 72                          |                    |



# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

| Time  | MW- 1                            | MW- 3                            | MW- 7                            | MW-                              | Stinger Placement |               |             |       |
|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------|---------------|-------------|-------|
|       | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Stinger Depth     | Product Depth | Water Level | Notes |
| MW 1  | 20                               | 20                               | 20                               |                                  | 27                | ---           | 23.11       | /     |
| MW 3  |                                  |                                  |                                  |                                  | 27                | ---           | 26.58       | /     |
| MW 7  |                                  |                                  |                                  |                                  | 26                | ---           | 24.80       | /     |
| 8:30  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 12:00 | 20                               | 20                               | 20                               |                                  | 27'               |               |             |       |
| 2:00  | 20                               | 20                               | 20                               |                                  | 29                |               |             |       |
| 4:00  | 20                               | 20                               | 20                               |                                  | 30                |               |             |       |
| 6:00  | 20                               | 20                               | 20                               |                                  | 32                |               |             |       |
| 8:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 10:00 | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 12:00 | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 8:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 12:00 | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 4:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 8:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| 12:00 | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |

non-5

line 3-4

Vacuum at Pump: \_\_\_\_\_

# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

|            |       | MW- 1                            | MW- 3                            | MW- 7                            | MW-                              | Stinger Placement |               |             |       |
|------------|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------|---------------|-------------|-------|
|            |       | Vacuum at Targeted Well (In. Hg) | Vacuum at Targeted Well (In. Hg) | Vacuum at Targeted Well (In. Hg) | Vacuum at Targeted Well (In. Hg) | Stinger Depth     | Product Depth | Water Level | Notes |
| Time       |       |                                  |                                  |                                  |                                  |                   |               |             |       |
| Wed<br>3-7 | 8:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
|            | 12:00 | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
|            | 4:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
|            | 8:00  | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
|            | 12:00 | 20                               | 20                               | 20                               |                                  |                   |               |             |       |
| Th<br>3-8  | 8:00  | 22                               | 22                               | 22                               |                                  |                   |               |             |       |
|            | 12:00 | 22                               | 22                               | 22                               |                                  |                   |               |             |       |
|            | 4:00  | 22                               | 22                               | 22                               |                                  |                   |               |             |       |
|            | 8:00  | 22                               | 22                               | 22                               |                                  |                   |               |             |       |
|            | 12:00 | 22                               | 22                               | 22                               |                                  |                   |               |             |       |
| Fri<br>3-9 | 8:00  | 22                               | 22                               | 22                               |                                  |                   |               |             |       |
|            | 8:30  | Shut Down                        |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |
|            |       |                                  |                                  |                                  |                                  |                   |               |             |       |

Vacuum at Pump: 26 @ Pump



# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

| Start<br>Time | MW- 2       |                                   | MW- 4       |                                   | MW- 201     |                                   | MW- 29      |                                   |
|---------------|-------------|-----------------------------------|-------------|-----------------------------------|-------------|-----------------------------------|-------------|-----------------------------------|
|               | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 8:30          | 29.69       | 0.0                               | 24.49       | 0.0                               | 23.12       | 0.0                               | 29.92       | 0.0                               |
| 10:00         |             | 0.0                               |             | 0.0                               |             | 0.0                               |             | 0.0                               |
| 11:00         |             | 0.0                               |             | 0.0                               |             | 0.1                               |             | 0.2                               |
| 12:00         |             | 0.1                               |             | 0.0                               |             | 0.1                               |             | 0.2                               |
| 1:00          |             | 0.1                               |             | 0.0                               |             | 0.1                               |             | 0.2                               |
| 2:00          |             | 0.1                               |             | 0.0                               |             | 0.2                               |             | 0.2                               |
| 3:00          |             | 0.1                               |             | 0.0                               |             | 0.2                               |             | 0.2                               |
| 4:00          |             | 0.1                               |             | 0.0                               |             | 0.2                               |             | 0.2                               |
| 5:00          |             | 0.1                               |             | 0.0                               |             | 0.2                               |             | 0.3                               |
| 6:00          |             | 0.1                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 7:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 8:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 9:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 10:00         |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 11:00         |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 12:00         |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
|               |             |                                   |             |                                   |             |                                   |             |                                   |
| 1:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 2:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 3:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 4:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 5:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 6:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 7:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 8:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 9:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 10:00         |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 11:00         |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 12:00         |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 1:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 2:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |
| 3:00          |             | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.3                               |

MW  
3-5

Time  
9:00



# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

3-8  
Thurs

|       | MW- 2            |                                   | MW- 4       |                                   | MW- 21      |                                   | MW- 27      |                                   |
|-------|------------------|-----------------------------------|-------------|-----------------------------------|-------------|-----------------------------------|-------------|-----------------------------------|
| Time  | Water Level      | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 8.00  |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 10.00 |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 12.00 |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 2.00  |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 4.00  |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 6.00  |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 8.00  |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 10.00 |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 12.00 |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
| 8.00  |                  | 0.2                               |             | 0.0                               |             | 0.3                               |             | 0.4                               |
| 8.30  | <i>Shut Down</i> |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       | 34.37            |                                   | 31.13       |                                   | 27.82       |                                   | 34.61       |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |
|       |                  |                                   |             |                                   |             |                                   |             |                                   |

Fri  
3-9

33.44

35.68

**APPENDIX B**

**POLLUTANT MASS REMOVAL DATA SHEETS**

Site: Former 378 Truck Stop  
 UST Permit #: 07960

| <b>Calculations - Flow at DSCFM</b> |             |                              |   |                            |                          |                                |                        |
|-------------------------------------|-------------|------------------------------|---|----------------------------|--------------------------|--------------------------------|------------------------|
| <b>Date</b>                         | <b>Time</b> | <b>Velocity<br/>(ft/min)</b> | <b>Cross Sec.<br/>Stack Area<br/>(ft<sup>2</sup>)</b> | <b>Temperature<br/>(F)</b> | <b>Rel.<br/>Humidity</b> | <b>Water<br/>Vapor<br/>(%)</b> | <b>Qstd<br/>(flow)</b> |
| 3/5/2018                            | 8:30        |                              |   |                            |                          |                                |                        |
| 3/5/2018                            | 9:00        | 426                          | 0.022   | 66                         | 71                       | 0.009702081                    | 9.32                   |
| 3/5/2018                            | 9:30        | 430                          | 0.022   | 75                         | 71                       | 0.013255312                    | 9.21                   |
| 3/5/2018                            | 10:00       | 433                          | 0.022   | 84                         | 71                       | 0.017934139                    | 9.08                   |
| 3/5/2018                            | 10:30       | 437                          | 0.022   | 96                         | 71                       | 0.026480931                    | 8.89                   |
| 3/5/2018                            | 11:00       | 441                          | 0.022   | 95                         | 71                       | 0.025648272                    | 8.99                   |
| 3/5/2018                            | 11:30       | 445                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.05                   |
| 3/5/2018                            | 12:00       | 449                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.13                   |
| 3/5/2018                            | 12:30       | 454                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.23                   |
| 3/5/2018                            | 1:00        | 460                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.36                   |
| 3/5/2018                            | 1:30        | 462                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.40                   |
| 3/5/2018                            | 2:00        | 465                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.46                   |
| 3/5/2018                            | 2:30        | 468                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.52                   |
| 3/5/2018                            | 3:00        | 469                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.54                   |
| 3/5/2018                            | 3:30        | 470                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.56                   |
| 3/5/2018                            | 4:00        | 473                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.62                   |
| 3/5/2018                            | 4:30        | 476                          | 0.022   | 96                         | 71                       | 0.026480931                    | 9.68                   |
| 3/5/2018                            | 5:00        | 478                          | 0.022   | 95                         | 72                       | 0.026024630                    | 9.74                   |
| 3/5/2018                            | 6:00        | 482                          | 0.022   | 95                         | 72                       | 0.026024630                    | 9.83                   |
| 3/5/2018                            | 7:00        | 487                          | 0.022   | 95                         | 72                       | 0.026024630                    | 9.93                   |
| 3/5/2018                            | 8:00        | 496                          | 0.022   | 95                         | 73                       | 0.026401425                    | 10.11                  |
| 3/5/2018                            | 9:00        | 508                          | 0.022   | 95                         | 73                       | 0.026401425                    | 10.35                  |
| 3/5/2018                            | 10:00       | 515                          | 0.022   | 94                         | 73                       | 0.025568008                    | 10.52                  |
| 3/5/2018                            | 11:00       | 524                          | 0.022   | 94                         | 73                       | 0.025568008                    | 10.71                  |
| 3/6/2018                            | 12:00       | 530                          | 0.022   | 94                         | 75                       | 0.026298118                    | 10.82                  |
| 3/6/2018                            | 8:00        | 608                          | 0.022   | 85                         | 77                       | 0.020153658                    | 12.70                  |
| 3/6/2018                            | 10:00       | 624                          | 0.022   | 95                         | 79                       | 0.028671432                    | 12.69                  |

|          |       |              |       |    |    |             |        |
|----------|-------|--------------|-------|----|----|-------------|--------|
| 3/6/2018 | 12:00 | 640          | 0.022 | 96 | 80 | 0.029999567 | 12.97  |
| 3/6/2018 | 2:00  | 659          | 0.022 | 98 | 80 | 0.031981929 | 13.28  |
| 3/6/2018 | 4:00  | 673          | 0.022 | 98 | 80 | 0.031981929 | 13.56  |
| 3/6/2018 | 6:00  | 696          | 0.022 | 97 | 80 | 0.030976168 | 14.07  |
| 3/6/2018 | 8:00  | 715          | 0.022 | 96 | 80 | 0.029999567 | 14.49  |
| 3/6/2018 | 10:00 | 724          | 0.022 | 95 | 80 | 0.029051312 | 14.71  |
| 3/7/2018 | 12:00 | 730          | 0.022 | 94 | 80 | 0.028130616 | 14.88  |
| 3/7/2018 | 8:00  | 846          | 0.022 | 89 | 78 | 0.023294259 | 17.48  |
| 3/7/2018 | 10:00 | 859          | 0.022 | 94 | 78 | 0.027396375 | 17.52  |
| 3/7/2018 | 12:00 | 873          | 0.022 | 95 | 77 | 0.027912999 | 17.76  |
| 3/7/2018 | 2:00  | 892          | 0.022 | 96 | 77 | 0.028822453 | 18.10  |
| 3/7/2018 | 4:00  | 904          | 0.022 | 96 | 77 | 0.028822453 | 18.34  |
| 3/7/2018 | 6:00  | 978          | 0.022 | 89 | 75 | 0.022366110 | 20.23  |
| 3/7/2018 | 8:00  | 992          | 0.022 | 88 | 75 | 0.021647030 | 20.57  |
| 3/7/2018 | 10:00 | 1003         | 0.022 | 87 | 75 | 0.020948978 | 20.85  |
| 3/8/2018 | 12:00 | 1016         | 0.022 | 86 | 75 | 0.020271380 | 21.18  |
| 3/8/2018 | 8:00  | 1167         | 0.022 | 87 | 72 | 0.020083962 | 24.28  |
| 3/8/2018 | 10:00 | 1176         | 0.022 | 92 | 72 | 0.023631793 | 24.16  |
| 3/8/2018 | 12:00 | 1184         | 0.022 | 94 | 72 | 0.025203569 | 24.20  |
| 3/8/2018 | 2:00  | 1193         | 0.022 | 94 | 72 | 0.025203569 | 24.38  |
| 3/8/2018 | 4:00  | 1204         | 0.022 | 93 | 72 | 0.024406171 | 24.67  |
| 3/8/2018 | 6:00  | 1211         | 0.022 | 91 | 72 | 0.022879811 | 24.95  |
| 3/8/2018 | 8:00  | 1219         | 0.022 | 90 | 72 | 0.022149619 | 25.18  |
| 3/8/2018 | 10:00 | 1226         | 0.022 | 88 | 72 | 0.020752260 | 25.45  |
| 3/9/2018 | 12:00 | 1235         | 0.022 | 88 | 72 | 0.020752260 | 25.64  |
| 3/9/2018 | 8:00  | 1283         | 0.022 | 85 | 72 | 0.018805413 | 26.83  |
| 3/9/2018 | 8:30  | shut<br>down |       |    |    |             |        |
| Averages |       |              | 0.022 |    |    |             | 14.926 |

Site: Former 378 Truck Stop  
 UST Permit #: 07960

| Calculations - Pollutant Mass Removal in pounds |                    |                     |                    |            |      |                 |              |              |          |
|---|--------------------|---------------------|--------------------|------------|------|-----------------|--------------|--------------|----------|
| Marg. Elap. Time                                | Elapsed Time (min) | Flow (DSCFM) (Qstd) | PPM measured (ppm) | K (#C-gas) | PPMg | Cg:m (mg/dsm^3) | Cg (lb/dscf) | PMRg (lb/hr) | PMR (lb) |
| 0   | 0                  |                     |                    |            |      |                 |              |              |          |
| 30  | 30                 | 9.32                | 371                | . 1        | 371  | 1972.91         | 0.000123169  | 0.06885      | 0.0344   |
| 30  | 60                 | 9.21                | 378                | 1          | 378  | 2010.14         | 0.000125493  | 0.06937      | 0.0347   |
| 30  | 90                 | 9.08                | 384                | 1          | 384  | 2042.04         | 0.000127485  | 0.06945      | 0.0347   |
| 30  | 120                | 8.89                | 386                | 1          | 386  | 2052.68         | 0.000128149  | 0.06834      | 0.0342   |
| 30  | 150                | 8.99                | 389                | 1          | 389  | 2068.63         | 0.000129145  | 0.06969      | 0.0348   |
| 30  | 180                | 9.05                | 392                | 1          | 392  | 2084.59         | 0.000130141  | 0.07067      | 0.0353   |
| 30  | 210                | 9.13                | 393                | 1          | 393  | 2089.90         | 0.000130473  | 0.07149      | 0.0357   |
| 30  | 240                | 9.23                | 395                | 1          | 395  | 2100.54         | 0.000131137  | 0.07265      | 0.0363   |
| 30  | 270                | 9.36                | 400                | 1          | 400  | 2127.13         | 0.000132797  | 0.07455      | 0.0373   |
| 30  | 300                | 9.40                | 404                | 1          | 404  | 2148.40         | 0.000134125  | 0.07562      | 0.0378   |
| 30  | 330                | 9.46                | 408                | 1          | 408  | 2169.67         | 0.000135453  | 0.07686      | 0.0384   |
| 30  | 360                | 9.52                | 411                | 1          | 411  | 2185.63         | 0.000136449  | 0.07793      | 0.0390   |
| 30  | 390                | 9.54                | 415                | 1          | 415  | 2206.90         | 0.000137777  | 0.07885      | 0.0394   |
| 30  | 420                | 9.56                | 419                | 1          | 419  | 2228.17         | 0.000139105  | 0.07978      | 0.0399   |
| 30  | 450                | 9.62                | 417                | . 1        | 417  | 2217.53         | 0.000138441  | 0.07991      | 0.0400   |
| 30  | 480                | 9.68                | 421                | 1          | 421  | 2238.80         | 0.000139769  | 0.08119      | 0.0406   |
| 30  | 510                | 9.74                | 422                | 1          | 422  | 2244.12         | 0.000140100  | 0.08191      | 0.0410   |
| 60  | 570                | 9.83                | 429                | 1          | 429  | 2281.35         | 0.000142424  | 0.08396      | 0.0840   |
| 60  | 630                | 9.93                | 436                | 1          | 436  | 2318.57         | 0.000144748  | 0.08622      | 0.0862   |
| 60  | 690                | 10.11               | 441                | 1          | 441  | 2345.16         | 0.000146408  | 0.08879      | 0.0888   |
| 60  | 750                | 10.35               | 447                | 1          | 447  | 2377.07         | 0.000148400  | 0.09217      | 0.0922   |
| 60  | 810                | 10.52               | 450                | 1          | 450  | 2393.02         | 0.000149396  | 0.09432      | 0.0943   |
| 60  | 870                | 10.71               | 451                | 1          | 451  | 2398.34         | 0.000149728  | 0.09618      | 0.0962   |
| 60  | 930                | 10.82               | 456                | 1          | 456  | 2424.93         | 0.000151388  | 0.09829      | 0.0983   |
| 480   | 1410               | 12.70               | 556                | 1          | 556  | 2956.71         | 0.000184587  | 0.14063      | 1.1250   |
| 120   | 1530               | 12.69               | 575                | 1          | 575  | 3057.75         | 0.000190895  | 0.1453       | 0.2906   |

|          |      |              |        |      |        |         |             |         |        |
|----------|------|--------------|--------|------|--------|---------|-------------|---------|--------|
| 120      | 1650 | 12.97        | 588    | 1    | 588    | 3126.88 | 0.000195211 | 0.15191 | 0.3038 |
| 120      | 1770 | 13.28        | 608    | 1    | 608    | 3233.24 | 0.000201851 | 0.16083 | 0.3217 |
| 120      | 1890 | 13.56        | 615    | 1    | 615    | 3270.46 | 0.000204175 | 0.16614 | 0.3323 |
| 120      | 2010 | 14.07        | 618    | 1    | 618    | 3286.41 | 0.000205171 | 0.17315 | 0.3463 |
| 120      | 2130 | 14.49        | 615    | 1    | 615    | 3270.46 | 0.000204175 | 0.17751 | 0.3550 |
| 120      | 2250 | 14.71        | 616    | 1    | 616    | 3275.78 | 0.000204507 | 0.18053 | 0.3611 |
| 120      | 2370 | 14.88        | 615    | 1    | 615    | 3270.46 | 0.000204175 | 0.18223 | 0.3645 |
| 480      | 2850 | 17.48        | 541    | 1    | 541    | 2876.94 | 0.000179608 | 0.18841 | 1.5072 |
| 120      | 2970 | 17.52        | 530    | 1    | 530    | 2818.45 | 0.000175956 | 0.18494 | 0.3699 |
| 120      | 3090 | 17.76        | 521    | 1    | 521    | 2770.59 | 0.000172968 | 0.18433 | 0.3687 |
| 120      | 3210 | 18.10        | 512    | 1    | 512    | 2722.73 | 0.000169980 | 0.18458 | 0.3692 |
| 120      | 3330 | 18.34        | 496    | 1    | 496    | 2637.64 | 0.000164668 | 0.18122 | 0.3624 |
| 120      | 3450 | 20.23        | 485    | 1    | 485    | 2579.14 | 0.000161016 | 0.19544 | 0.3909 |
| 120      | 3570 | 20.57        | 472    | 1    | 472    | 2510.01 | 0.000156700 | 0.19342 | 0.3868 |
| 120      | 3690 | 20.85        | 458    | 1    | 458    | 2435.56 | 0.000152052 | 0.19025 | 0.3805 |
| 120      | 3810 | 21.18        | 446    | 1    | 446    | 2371.75 | 0.000148068 | 0.18814 | 0.3763 |
| 480      | 4290 | 24.28        | 331    | 1    | 331    | 1760.20 | 0.000109889 | 0.16012 | 1.2809 |
| 120      | 4410 | 24.16        | 319    | 1    | 319    | 1696.39 | 0.000105905 | 0.15354 | 0.3071 |
| 120      | 4530 | 24.20        | 297    | 1    | 297    | 1579.39 | 0.000098602 | 0.14317 | 0.2863 |
| 120      | 4650 | 24.38        | 284    | 1    | 284    | 1510.26 | 0.000094286 | 0.13794 | 0.2759 |
| 120      | 4770 | 24.67        | 277    | 1    | 277    | 1473.04 | 0.000091962 | 0.13614 | 0.2723 |
| 120      | 4890 | 24.95        | 266    | 1    | 266    | 1414.54 | 0.000088310 | 0.13218 | 0.2644 |
| 120      | 5010 | 25.18        | 262    | 1    | 262    | 1393.27 | 0.000086982 | 0.13139 | 0.2628 |
| 120      | 5130 | 25.45        | 261    | 1    | 261    | 1387.95 | 0.000086650 | 0.13231 | 0.2646 |
| 120      | 5250 | 25.64        | 255    | 1    | 255    | 1356.04 | 0.000084658 | 0.13021 | 0.2604 |
| 480      | 5730 | 26.83        | 226    | 1    | 226    | 1201.83 | 0.000075030 | 0.12079 | 0.9663 |
| 30       | 5760 | shut<br>down |        |      |        |         |             |         |        |
| Averages |      | 14.93        | 433.85 | 1.00 | 433.85 | 2307.12 | 0.000144033 | 0.1241  | 0.2697 |

Total Emission in pounds:

14.0266



## **Pollutant Mass Removal Calculations**

$Q_{std} = (1 - \text{water vapor}) * \text{velocity} * (\text{PI} * (\text{diameter}/24)^2) * (528 \text{degrees R}/(\text{Temp} + 460))$

$\text{PPMg} = \text{PPM measured} * K$

$\text{Cg:m} = \text{PPMg} * (\text{Mg}/K3)$

$\text{Cg} = \text{Cg:m} * 62.43\text{E-}09 \text{ lb-m}^3/\text{mg-ft}^3$

$\text{PMRg} = \text{Cg} * Q_{std} * 60 \text{ min/hr}$

$\text{PMR} = \text{PMRg} * ((T2 - T1)/60)$

$Q_{std} = \text{Flow at DSCFM}$

**Vacuum** = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)

**Velocity** = rate at which air flow is measured at the blower discharging pipe (anemometer)

**Cross Sectional Area** = area in ft<sup>2</sup> of discharge stack

**Relative Humidity** = The % relative humidity of the air stream exiting from the blower discharge piping

**Water Vapor in %** = Pounds of water/ pound of dry air, derived from the psychrometric chart (temp vs relative humidity)

**PPM** = PPM measurements taken with an OVA/ PID at the blower discharge piping

**K** = Number of carbons in calibration gas: K=1

**PPMg** = PPMv, Volumetric concentration as gasoline emission, dry basis at STP

**Cg:m** =mg/dsm<sup>3</sup>, mass concentration of gasoline emission

**Mg** = 128 mg/mg-mole, molecular weight of gasoline

**K3** = 24.07 dsm<sup>3</sup>/1E6 mg-mole, mass to volume conversion factor at STP

**Cg** = lb/dcsf, mass concentration of gasoline emission, dry basis at STP

**PMRg** = lb/hr, pollutant mass removal rate of gasoline emission

**PMR** = pollutant mass removal of gasoline emission over time

**APPENDIX C**

**LIQUID DISPOSAL MANIFEST**

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

|   |  |   |   |                                     |                    |
|---|--|---|---|-------------------------------------|--------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>   |  | 1. Generator's US EPA ID No.                              |   | Manifest Document No.               | 2. Page 1 of       |
| 3. Generator's Name and Mailing Address   |  | Former 378 Truck Stop<br>731 Highway 378<br>Edgefield, SC |   |                                     |                    |
| 4. Generator's Phone ( )  |  |   |   |                                     |                    |
| 5. Transporter 1 Company Name   |  | 6. US EPA ID Number                                       |   | A. State Transporter's ID           |                    |
| HERP  |  |   |   | B. Transporter 1 Phone 910-640-2607 |                    |
| 7. Transporter 2 Company Name   |  | 8. US EPA ID Number                                       |   | C. State Transporter's ID           |                    |
|   |  |   |   | D. Transporter 2 Phone              |                    |
| 9. Designated Facility Name and Site Address  |  | 10. US EPA ID Number                                      |   | E. State Facility's ID              |                    |
| CWS<br>303 S. Mauldsby St.<br>Whiteville, NC  |  |   |   | F. Facility's Phone 910.640-2608    |                    |
| 11. WASTE DESCRIPTION   |  |   | Containers                                |                                     | 13. Total Quantity |
|   |  |   | No.                                       | Type                                | 14. Unit WL/Vol.   |
| a. Non-Reg. Petroleum Contact Water   |  |   |   | TT                                  | 5796 Gal           |
| b.  |  |   |   | 550 gallon Fuel                     |                    |
| c.  |  |   |   | 594                                 | #948               |
| d.  |  |   |   |                                     |                    |
| G. Additional Descriptions for Materials Listed Above   |  |   | H. Handling Codes for Wastes Listed Above |                                     |                    |
| 15. Special Handling Instructions and Additional Information  |  |   |   |                                     |                    |
|   |  |   |   |                                     |                    |
| 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. |  |   |   |                                     |                    |
| Printed/Typed Name  |  | Signature   |   | Date                                |                    |
| Steve Rivenbark   |  | Steve Rivenbark   |   | 3   9   18                          |                    |
| 17. Transporter 1 Acknowledgement of Receipt of Materials   |  |   |   |                                     |                    |
| Printed/Typed Name  |  | Signature   |   | Date                                |                    |
| DALE FOWLER   |  | Dale Fowler   |   | 3   9   18                          |                    |
| 18. Transporter 2 Acknowledgement of Receipt of Materials   |  |   |   |                                     |                    |
| Printed/Typed Name  |  | Signature   |   | Date                                |                    |
|   |  |   |   |                                     |                    |
| 19. Discrepancy Indication Space  |  |   |   |                                     |                    |
| 20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.   |  |   |   |                                     |                    |
| Printed/Typed Name  |  | Signature   |   | Date                                |                    |
| Trex Co   |  | Trex Co   |   | 3   9   18                          |                    |

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

**Heil Tanker Trailer**

**Tanker # 948**

**VIN: H37851**

**Nominal Capacity: 5800 gallons**

| <b>Inches</b> | <b>Gallons</b> | <b>Inches</b> | <b>Gallons</b> | <b>Inches</b> | <b>Gallons</b> | <b>Inches</b> | <b>Gallons</b> |
|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|
| 1 in          | 21             | 2 in          | 59             | 3 in          | 108            | 4 in          | 165            |
| 5 in          | 230            | 6 in          | 301            | 7 in          | 378            | 8 in          | 459            |
| 9 in          | 545            | 10 in         | 635            | 11 in         | 729            | 12 in         | 826            |
| 13 in         | 927            | 14 in         | 1030           | 15 in         | 1136           | 16 in         | 1244           |
| 17 in         | 1355           | 18 in         | 1468           | 19 in         | 1582           | 20 in         | 1699           |
| 21 in         | 1816           | 22 in         | 1936           | 23 in         | 2056           | 24 in         | 2178           |
| 25 in         | 2300           | 26 in         | 2423           | 27 in         | 2547           | 28 in         | 2672           |
| 29 in         | 2796           | 30 in         | 2921           | 31 in         | 3046           | 32 in         | 3171           |
| 33 in         | 3295           | 34 in         | 3419           | 35 in         | 3542           | 36 in         | 3664           |
| 37 in         | 3785           | 38 in         | 3906           | 39 in         | 4024           | 40 in         | 4142           |
| 41 in         | 4258           | 42 in         | 4372           | 43 in         | 4484           | 44 in         | 4594           |
| 45 in         | 4702           | 46 in         | 4807           | 47 in         | 4910           | 48 in         | 5009           |
| 49 in         | 5106           | 50 in         | 5199           | 51 in         | 5288           | 52 in         | 5372           |
| 53 in         | 5453           | 54 in         | 5528           | 55 in         | 5597           | 56 in         | 5660           |
| 57 in         | 5715           | 58 in         | 5761           | 59 in         | 5796           |               |                |



2018/3/9 17:11





**HAZMAT EMERGENCY RESPONSE AND REMEDIATION, INC.**

PO Box 2345 · 303 South Maulsby Street · Whiteville, NC 28472 · Phone: 910-640-2607  
Fax: 910-640-2609 · e-mail: herrteam@hotmail.com · www.herrteam.com

Wednesday, March 21, 2018

Scott Ball  
Geological Resources, Inc.  
3502 Hayes Rd  
Monroe, NC 28110

Re: Site Name: Former 378 Truck Stop  
Edgefield, SC  
UST Permit #: 07960

Scott,

Hazmat Emergency Response and Remediation, Inc. (HERR) completed one 96 hour Aggressive Fluid Vapor Recovery (AFVR) event at the above site on March 9-13, 2018. Included is the documentation for the event. The 96 hour event was conducted on monitoring wells MW-12 and MW-22.

If you have any questions, please do not hesitate to contact our office.

Sincerely,

Marc Cox  
HERR Project Manager

Former 378 Truck Stop  
Edgefield, SC  
March 9-13, 2018

### **AFVR**

HERR mobilized personnel and equipment to Former 378 Truck Stop on 3/9/18. The ambient temperature was 56 deg F and weather conditions were sunny/fair. The depths to product and water were measured prior to and subsequent to the AFVR event. Stinger depth was lowered at six inch intervals starting at the water table interface until the target depth was reached (See attached data). Personnel from Geological Resources, Inc. (GRI) were on site to supervise the event.

The 96 Hour AFVR event was conducted using a Global Vacuum Liquid Ring Pump with off gas treatment through a vapor phase granular activated carbon scrubber. The vacuum unit is capable of providing 325 CFM at 25 inches of mercury.

### **Pollutant Mass Removal**

Total weight of 5.3911 pounds of petroleum in the vapor phase (total non-methane organic emissions) was removed during the 96 hour AFVR event. This amount is based on data collected during the AFVR event (see attached data sheets)

### **Liquid Disposal**

Approximately 1,263 gallons of petroleum contact water was collected during the AFVR event (See attached disposal manifest)



## **APPENDICES**

- A. AFVR FIELD NOTES**
- B. POLLUTANT MASS REMOVAL DATA SHEET**
- C. LIQUID DISPOSAL MANIFEST**

**APPENDIX A**

**AFVR FIELD NOTES**

**HERR, Inc.**

AFVR – Field Notes

Site Name: (Former) 378 Truck Stop Location: Edgefield, SC  
 AFVR Contractor: HERR, Inc Personnel: Stevie + Dale  
 Date: 3-9-3-13-18 Ambient Air Temperature and General Weather Condition: 56° Sunny - Fair  
 Start Time 1: 10:30 Stop Time 1: 10:30 Start Time 2: \_\_\_\_\_ Stop Time 2: \_\_\_\_\_  
 Total volume of water removed during the AFVR Event: 1,263 gal.  
 Total volume of product removed during the AFVR Event: \_\_\_\_\_  
 Product Recovery Rate: \_\_\_\_\_

| Monitoring Well | Depth to product prior to stinger placement (ft. below TOC) | Depth to water prior to stinger placement (ft. below TOC) | Depth to product at cessation of vacuuming (ft. below TOC) | Depth to water at cessation of vacuuming (ft. below TOC) | Estimated volume of water removed during this event | Relevant Observations |
|-----------------|---|---|--|--|---|-----------------------|
| MW 12           | ---   | 32.55   | ---  | 32.90  |   |                       |
| MW 22           | ---   | 34.50   | ---  | 37.12  | 1,263   |                       |
|                 |   |   |  |  |   |                       |
|                 |   |   |  |  |   |                       |

378-Truck Stop

①

#2 Aggressive Fluid/Vapor Recovery Notes

7/1  
3-9

| Start Time | PID at stack (ppm) | PID after off-gas treatment (carbon) (ppm) | Velocity (ft. / min.) | Temperature (Fahrenheit) | Relative Humidity (%) | PID Calibration |
|------------|--------------------|--|-----------------------|--------------------------|-----------------------|-----------------|
| 10:30 AM   |                    |  |                       |                          |                       |                 |
| 11:00      | 259                | 45   | 324                   | 87                       | 71                    |                 |
| 11:30      | 271                | 49   | 329                   | 88                       | 71                    |                 |
| 12:00      | 287                | 57   | 328                   | 90                       | 71                    |                 |
| 12:30      | 315                | 56   | 329                   | 94                       | 71                    |                 |
| 1:00       | 318                | 57   | 332                   | 94                       | 71                    |                 |
| 1:30       | 322                | 58   | 332                   | 95                       | 71                    |                 |
| 2:00       | 334                | 61   | 335                   | 95                       | 71                    |                 |
| 2:30       | 342                | 63   | 337                   | 94                       | 71                    |                 |
| 3:00       | 358                | 62   | 336                   | 94                       | 71                    |                 |
| 3:30       | 366                | 61   | 338                   | 94                       | 71                    |                 |
| 4:00       | 378                | 61   | 337                   | 92                       | 71                    |                 |
| 4:30       | 380                | 60   | 337                   | 94                       | 71                    |                 |
| 5:00       | 381                | 62   | 338                   | 92                       | 71                    |                 |
| 5:30       | 385                | 64   | 340                   | 92                       | 71                    |                 |
| 6:00       | 386                | 63   | 342                   | 92                       | 71                    |                 |
| 6:30       | 388                | 63   | 342                   | 91                       | 71                    |                 |
| 7:00       | 393                | 65   | 341                   | 91                       | 72                    |                 |
| 8:00       | 395                | 66   | 343                   | 91                       | 72                    |                 |
| 9:00       | 398                | 66   | 343                   | 89                       | 72                    |                 |
| 10:00      | 402                | 67   | 344                   | 89                       | 72                    |                 |
| 11:00      | 405                | 69   | 345                   | 88                       | 72                    |                 |
| 12:00      | 406                | 69   | 346                   | 88                       | 72                    |                 |
|            |                    |  |                       |                          |                       |                 |
|            |                    |  |                       |                          |                       |                 |
|            |                    |  |                       |                          |                       |                 |

②

## Aggressive Fluid/Vapor Recovery Notes

| Time  | PID<br>at stack<br>(ppm) | PID<br>after off-gas<br>treatment<br>(carbon)<br>(ppm) | Velocity<br>(ft. / min.) | Temperature<br>(Fahrenheit) | Relative<br>Humidity<br>(%) | PID<br>Calibration |
|-------|--------------------------|--|--------------------------|-----------------------------|-----------------------------|--------------------|
| 8:00  | 472                      | 79   | 371                      | 88                          | 74                          |                    |
| 10:00 | 473                      | 78   | 370                      | 91                          | 74                          |                    |
| 12:00 | 475                      | 74   | 373                      | 95                          | 74                          |                    |
| 2:00  | 474                      | 72   | 374                      | 94                          | 74                          |                    |
| 4:00  | 475                      | 73   | 376                      | 95                          | 74                          |                    |
| 6:00  | 474                      | 71   | 377                      | 94                          | 74                          |                    |
| 8:00  | 474                      | 75   | 378                      | 92                          | 74                          |                    |
| 10:00 | 473                      | 74   | 377                      | 90                          | 75                          |                    |
| 12:00 | 470                      | 71   | 378                      | 88                          | 76                          |                    |
|       |                          |  |                          |                             |                             |                    |
|       |                          |  |                          |                             |                             |                    |
| 8:00  | 366                      | 53   | 402                      | 86                          | 82                          |                    |
| 10:00 | 362                      | 53   | 403                      | 89                          | 82                          |                    |
| 12:00 | 357                      | 51   | 405                      | 90                          | 82                          |                    |
| 2:00  | 348                      | 52   | 407                      | 94                          | 83                          |                    |
| 4:00  | 341                      | 49   | 408                      | 92                          | 83                          |                    |
| 6:00  | 335                      | 47   | 404                      | 92                          | 84                          |                    |
| 8:00  | 339                      | 47   | 408                      | 91                          | 84                          |                    |
| 10:00 | 334                      | 43   | 411                      | 90                          | 84                          |                    |
| 12:00 | 331                      | 40   | 413                      | 89                          | 84                          |                    |
|       |                          |  |                          |                             |                             |                    |
|       |                          |  |                          |                             |                             |                    |
|       |                          |  |                          |                             |                             |                    |
|       |                          |  |                          |                             |                             |                    |
|       |                          |  |                          |                             |                             |                    |

Sat  
3-10

Sun  
3-11



318 Truck Steps

#2

### Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

| Start Time | MW- <del>12</del>                | MW- <del>12</del>                | MW- <del>22</del>                | MW-                              | Stinger Placement |               |             |       |
|------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------|---------------|-------------|-------|
|            | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Stinger Depth     | Product Depth | Water Level | Notes |
| 10:30      |                                  |                                  |                                  |                                  | 35'               | -             | 32.55       |       |
| MW12       |                                  |                                  |                                  |                                  | 36'               | -             | 34.50       |       |
| MW22       |                                  |                                  |                                  |                                  |                   |               |             |       |
| 11:00      |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00      |                                  | 25                               | 25                               |                                  | 36.5              |               |             |       |
| 1:00       |                                  | 25                               | 25                               |                                  | 37                |               |             |       |
| 2:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 3:00       |                                  | 25                               | 25                               |                                  | 37.5              |               |             |       |
| 4:00       |                                  | 25                               | 25                               |                                  | 38                |               |             |       |
| 5:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 6:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 7:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 8:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 9:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00      |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 11:00      |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00      |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 1:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 2:00       |                                  | 25                               | 25                               |                                  |                   |               |             |       |

3-9

3-10

Vacuum at Pump: 27 @ Pump

# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

| Time  | MW-                              | MW-12                            | MW-22                            | MW-                              | Stinger Placement |               |             |       |
|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------|---------------|-------------|-------|
|       | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Stinger Depth     | Product Depth | Water Level | Notes |
| 3:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 4:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 5:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 6:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 7:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 8:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 9:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 11:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
| 8:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 2:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 4:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 6:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 8:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |
|       |                                  |                                  |                                  |                                  |                   |               |             |       |

1st  
1-10

Site  
3-K

Vacuum at Pump: 27 @ Pump



# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

|       | MW-                              | MW-12                            | MW-22                            | MW-                              | Stinger Placement |               |             |       |
|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------|---------------|-------------|-------|
| Time  | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Vacuum at Targeted Well (in. Hg) | Stinger Depth     | Product Depth | Water Level | Notes |
| 8:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 2:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 4:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 6:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 8:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 12:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 8:00  |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 10:00 |                                  | 25                               | 25                               |                                  |                   |               |             |       |
| 1630  | Shut Down                        |                                  |                                  |                                  |                   |               |             |       |

MW-313

MW-13

Vacuum at Pump: 27 @ pump





# Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

| Time  | MW-13       |                                   | MW-14       |                                   | MW- <del>22</del> <sup>15</sup> |                                   | MW-30       |                                   |
|-------|-------------|-----------------------------------|-------------|-----------------------------------|---------------------------------|-----------------------------------|-------------|-----------------------------------|
|       | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level                     | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 8:00  |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 10:00 |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 12:00 |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 2:00  |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 4:00  |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 6:00  |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 8:00  |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 10:00 |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 12:00 |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 8:00  |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 10:00 |             | 0                                 |             | 0                                 |                                 | 0                                 |             | 0                                 |
| 10:30 | Shut Down   |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |
|       |             |                                   |             |                                   |                                 |                                   |             |                                   |

Mon  
3-7-8

Tue  
3-8

**APPENDIX B**

**POLLUTANT MASS REMOVAL DATA SHEETS**

Site: Former 378 Truck Stop  
 UST Permit #: 07960

| Calculations - Flow at DSCFM |       |                      |  |                    |                  |                       |                |
|------------------------------|-------|----------------------|--|--------------------|------------------|-----------------------|----------------|
| Date                         | Time  | Velocity<br>(ft/min) | Cross Sec.<br>Stack Area<br>(ft <sup>2</sup> ) | Temperature<br>(F) | Rel.<br>Humidity | Water<br>Vapor<br>(%) | Qstd<br>(flow) |
| 3/9/2018                     | 10:30 |                      |  |                    |                  |                       |                |
| 3/9/2018                     | 11:00 | 326                  | 0.022  | 87                 | 71               | 0.019796140           | 6.79           |
| 3/9/2018                     | 11:30 | 329                  | 0.022  | 88                 | 71               | 0.020454556           | 6.83           |
| 3/9/2018                     | 12:00 | 328                  | 0.022  | 90                 | 71               | 0.021831188           | 6.78           |
| 3/9/2018                     | 12:30 | 329                  | 0.022  | 94                 | 71               | 0.024839540           | 6.73           |
| 3/9/2018                     | 1:00  | 332                  | 0.022  | 94                 | 71               | 0.024839540           | 6.79           |
| 3/9/2018                     | 1:30  | 332                  | 0.022  | 95                 | 71               | 0.025648272           | 6.77           |
| 3/9/2018                     | 2:00  | 335                  | 0.022  | 95                 | 71               | 0.025648272           | 6.83           |
| 3/9/2018                     | 2:30  | 337                  | 0.022  | 94                 | 71               | 0.024839540           | 6.89           |
| 3/9/2018                     | 3:00  | 336                  | 0.022  | 94                 | 71               | 0.024839540           | 6.87           |
| 3/9/2018                     | 3:30  | 338                  | 0.022  | 94                 | 71               | 0.024839540           | 6.91           |
| 3/9/2018                     | 4:00  | 337                  | 0.022  | 92                 | 71               | 0.023291283           | 6.93           |
| 3/9/2018                     | 4:30  | 337                  | 0.022  | 94                 | 71               | 0.024839540           | 6.89           |
| 3/9/2018                     | 5:00  | 338                  | 0.022  | 92                 | 71               | 0.023291283           | 6.95           |
| 3/9/2018                     | 5:30  | 340                  | 0.022  | 92                 | 71               | 0.023291283           | 6.99           |
| 3/9/2018                     | 6:00  | 342                  | 0.022  | 92                 | 71               | 0.023291283           | 7.03           |
| 3/9/2018                     | 6:30  | 342                  | 0.022  | 91                 | 71               | 0.022550515           | 7.05           |
| 3/9/2018                     | 7:00  | 341                  | 0.022  | 91                 | 72               | 0.022879811           | 7.02           |
| 3/9/2018                     | 8:00  | 343                  | 0.022  | 91                 | 72               | 0.022879811           | 7.07           |
| 3/9/2018                     | 9:00  | 343                  | 0.022  | 89                 | 72               | 0.021440627           | 7.10           |
| 3/9/2018                     | 10:00 | 344                  | 0.022  | 89                 | 72               | 0.021440627           | 7.12           |
| 3/9/2018                     | 11:00 | 345                  | 0.022  | 88                 | 72               | 0.020752260           | 7.16           |
| 3/10/2018                    | 12:00 | 346                  | 0.022  | 88                 | 72               | 0.020752260           | 7.18           |
| 3/10/2018                    | 8:00  | 371                  | 0.022  | 88                 | 74               | 0.021348497           | 7.70           |
| 3/10/2018                    | 10:00 | 370                  | 0.022  | 91                 | 74               | 0.023539414           | 7.62           |
| 3/10/2018                    | 12:00 | 373                  | 0.022  | 95                 | 74               | 0.026778659           | 7.60           |
| 3/10/2018                    | 2:00  | 374                  | 0.022  | 96                 | 74               | 0.027649582           | 7.60           |

|           |       |           |       |       |       |             |       |
|-----------|-------|-----------|-------|-------|-------|-------------|-------|
| 3/10/2018 | 4:00  | 376       | 0.022 | 95    | 74    | 0.026778659 | 7.66  |
| 3/10/2018 | 6:00  | 377       | 0.022 | 94    | 74    | 0.025932857 | 7.70  |
| 3/10/2018 | 8:00  | 378       | 0.022 | 92    | 74    | 0.024313892 | 7.76  |
| 3/10/2018 | 10:00 | 377       | 0.022 | 90    | 75    | 0.023106805 | 7.78  |
| 3/11/2018 | 12:00 | 378       | 0.022 | 88    | 76    | 0.021945841 | 7.84  |
| 3/11/2018 | 8:00  | 402       | 0.022 | 86    | 82    | 0.022230997 | 8.36  |
| 3/11/2018 | 10:00 | 403       | 0.022 | 89    | 82    | 0.024535959 | 8.32  |
| 3/11/2018 | 12:00 | 405       | 0.022 | 90    | 82    | 0.025351340 | 8.34  |
| 3/11/2018 | 2:00  | 407       | 0.022 | 94    | 83    | 0.029235097 | 8.28  |
| 3/11/2018 | 4:00  | 408       | 0.022 | 92    | 83    | 0.027401257 | 8.35  |
| 3/11/2018 | 6:00  | 406       | 0.022 | 92    | 84    | 0.027746119 | 8.31  |
| 3/11/2018 | 8:00  | 408       | 0.022 | 91    | 84    | 0.026857771 | 8.37  |
| 3/11/2018 | 10:00 | 411       | 0.022 | 90    | 84    | 0.025995507 | 8.45  |
| 3/12/2018 | 12:00 | 413       | 0.022 | 89    | 84    | 0.025158603 | 8.52  |
| 3/12/2018 | 8:00  | 416       | 0.022 | 87    | 78    | 0.021816328 | 8.64  |
| 3/12/2018 | 10:00 | 419       | 0.022 | 90    | 78    | 0.024066840 | 8.64  |
| 3/12/2018 | 12:00 | 422       | 0.022 | 96    | 77    | 0.028822453 | 8.56  |
| 3/12/2018 | 2:00  | 425       | 0.022 | 96    | 77    | 0.028822453 | 8.62  |
| 3/12/2018 | 4:00  | 425       | 0.022 | 94    | 76    | 0.026663791 | 8.67  |
| 3/12/2018 | 6:00  | 426       | 0.022 | 93    | 76    | 0.025818351 | 8.72  |
| 3/12/2018 | 8:00  | 428       | 0.022 | 90    | 76    | 0.023426500 | 8.83  |
| 3/12/2018 | 10:00 | 431       | 0.022 | 89    | 76    | 0.022675196 | 8.91  |
| 3/13/2018 | 12:00 | 430       | 0.022 | 87    | 75    | 0.020948978 | 8.94  |
| 3/13/2018 | 8:00  | 432       | 0.022 | 87    | 72    | 0.020083962 | 8.99  |
| 3/13/2018 | 10:00 | 458       | 0.022 | 92    | 72    | 0.023631793 | 9.41  |
| 3/13/2018 | 10:30 | shut down |       |       |       |             |       |
| Averages  |       | 375.86    | 0.022 | 91.31 | 74.86 | 0.024136475 | 7.728 |

Site: Former 378 Truck Stop  
 UST Permit #: 07960

| Calculations - Pollutant Mass Removal in pounds |                    |                     |                    |            |      |                             |              |              |          |
|---|--------------------|---------------------|--------------------|------------|------|-----------------------------|--------------|--------------|----------|
| Marg. Elap. Time                                | Elapsed Time (min) | Flow (DSCFM) (Qstd) | PPM measured (ppm) | K (#C-gas) | PPMg | Cg:m (mg/dsm <sup>3</sup> ) | Cg (lb/dscf) | PMRg (lb/hr) | PMR (lb) |
| 0   | 0                  |                     |                    |            |      |                             |              |              |          |
| 30  | 30                 | 6.79                | 258                | 1          | 258  | 1372.00                     | 0.000085654  | 0.0349       | 0.0174   |
| 30  | 60                 | 6.83                | 271                | 1          | 271  | 1441.13                     | 0.000089970  | 0.0369       | 0.0184   |
| 30  | 90                 | 6.78                | 287                | 1          | 287  | 1526.22                     | 0.000095282  | 0.0387       | 0.0194   |
| 30  | 120                | 6.73                | 315                | 1          | 315  | 1675.11                     | 0.000104577  | 0.0422       | 0.0211   |
| 30  | 150                | 6.79                | 318                | 1          | 318  | 1691.07                     | 0.000105573  | 0.0430       | 0.0215   |
| 30  | 180                | 6.77                | 322                | 1          | 322  | 1712.34                     | 0.000106901  | 0.0434       | 0.0217   |
| 30  | 210                | 6.83                | 336                | 1          | 336  | 1786.79                     | 0.000111549  | 0.0457       | 0.0229   |
| 30  | 240                | 6.89                | 342                | 1          | 342  | 1818.70                     | 0.000113541  | 0.0469       | 0.0235   |
| 30  | 270                | 6.87                | 358                | 1          | 358  | 1903.78                     | 0.000118853  | 0.0490       | 0.0245   |
| 30  | 300                | 6.91                | 366                | 1          | 366  | 1946.32                     | 0.000121509  | 0.0504       | 0.0252   |
| 30  | 330                | 6.93                | 378                | 1          | 378  | 2010.14                     | 0.000125493  | 0.0522       | 0.0261   |
| 30  | 360                | 6.89                | 380                | 1          | 380  | 2020.77                     | 0.000126157  | 0.0522       | 0.0261   |
| 30  | 390                | 6.95                | 381                | 1          | 381  | 2026.09                     | 0.000126489  | 0.0527       | 0.0264   |
| 30  | 420                | 6.99                | 385                | 1          | 385  | 2047.36                     | 0.000127817  | 0.0536       | 0.0268   |
| 30  | 450                | 7.03                | 386                | 1          | 386  | 2052.68                     | 0.000128149  | 0.0540       | 0.0270   |
| 30  | 480                | 7.05                | 388                | 1          | 388  | 2063.32                     | 0.000128813  | 0.0545       | 0.0272   |
| 30  | 510                | 7.02                | 393                | 1          | 393  | 2089.90                     | 0.000130473  | 0.0550       | 0.0275   |
| 60  | 570                | 7.07                | 395                | 1          | 395  | 2100.54                     | 0.000131137  | 0.0556       | 0.0556   |
| 60  | 630                | 7.10                | 398                | 1          | 398  | 2116.49                     | 0.000132133  | 0.0563       | 0.0563   |
| 60  | 690                | 7.12                | 402                | 1          | 402  | 2137.76                     | 0.000133461  | 0.0570       | 0.0570   |
| 60  | 750                | 7.16                | 405                | 1          | 405  | 2153.72                     | 0.000134457  | 0.0578       | 0.0578   |
| 60  | 810                | 7.18                | 406                | 1          | 406  | 2159.04                     | 0.000134789  | 0.0581       | 0.0581   |
| 480   | 1290               | 7.70                | 472                | 1          | 472  | 2510.01                     | 0.000156700  | 0.0724       | 0.5789   |
| 120   | 1410               | 7.62                | 473                | 1          | 473  | 2515.33                     | 0.000157032  | 0.0718       | 0.1435   |
| 120   | 1530               | 7.60                | 475                | 1          | 475  | 2525.97                     | 0.000157696  | 0.0719       | 0.1438   |
| 120   | 1650               | 7.60                | 474                | 1          | 474  | 2520.65                     | 0.000157364  | 0.0717       | 0.1435   |



|                 |      |              |        |      |        |         |             |        |        |
|-----------------|------|--------------|--------|------|--------|---------|-------------|--------|--------|
| 120             | 1770 | 7.66         | 475    | 1    | 475    | 2525.97 | 0.000157696 | 0.0725 | 0.1449 |
| 120             | 1890 | 7.70         | 476    | 1    | 476    | 2531.28 | 0.000158028 | 0.0730 | 0.1460 |
| 120             | 2010 | 7.76         | 474    | 1    | 474    | 2520.65 | 0.000157364 | 0.0733 | 0.1466 |
| 120             | 2130 | 7.78         | 473    | 1    | 473    | 2515.33 | 0.000157032 | 0.0733 | 0.1466 |
| 120             | 2250 | 7.84         | 470    | 1    | 470    | 2499.38 | 0.000156036 | 0.0734 | 0.1467 |
| 480             | 2730 | 8.36         | 366    | 1    | 366    | 1946.32 | 0.000121509 | 0.0610 | 0.4877 |
| 120             | 2850 | 8.32         | 362    | 1    | 362    | 1925.05 | 0.000120181 | 0.0600 | 0.1200 |
| 120             | 2970 | 8.34         | 357    | 1    | 357    | 1898.46 | 0.000118521 | 0.0593 | 0.1186 |
| 120             | 3090 | 8.28         | 348    | 1    | 348    | 1850.60 | 0.000115533 | 0.0574 | 0.1149 |
| 120             | 3210 | 8.35         | 341    | 1    | 341    | 1813.38 | 0.000113209 | 0.0567 | 0.1134 |
| 120             | 3330 | 8.31         | 335    | 1    | 335    | 1781.47 | 0.000111217 | 0.0554 | 0.1109 |
| 120             | 3450 | 8.37         | 339    | 1    | 339    | 1802.74 | 0.000112545 | 0.0565 | 0.1130 |
| 120             | 3570 | 8.45         | 334    | 1    | 334    | 1776.15 | 0.000110885 | 0.0562 | 0.1125 |
| 120             | 3690 | 8.52         | 331    | 1    | 331    | 1760.20 | 0.000109889 | 0.0562 | 0.1123 |
| 480             | 4170 | 8.64         | 275    | 1    | 275    | 1462.40 | 0.000091298 | 0.0473 | 0.3787 |
| 120             | 4290 | 8.64         | 271    | 1    | 271    | 1441.13 | 0.000089970 | 0.0466 | 0.0932 |
| 120             | 4410 | 8.56         | 270    | 1    | 270    | 1435.81 | 0.000089638 | 0.0461 | 0.0921 |
| 120             | 4530 | 8.62         | 267    | 1    | 267    | 1419.86 | 0.000088642 | 0.0459 | 0.0917 |
| 120             | 4650 | 8.67         | 266    | 1    | 266    | 1414.54 | 0.000088310 | 0.0460 | 0.0919 |
| 120             | 4770 | 8.72         | 263    | 1    | 263    | 1398.59 | 0.000087314 | 0.0457 | 0.0913 |
| 120             | 4890 | 8.83         | 258    | 1    | 258    | 1372.00 | 0.000085654 | 0.0454 | 0.0907 |
| 120             | 5010 | 8.91         | 255    | 1    | 255    | 1356.04 | 0.000084658 | 0.0453 | 0.0905 |
| 120             | 5130 | 8.94         | 256    | 1    | 256    | 1361.36 | 0.000084990 | 0.0456 | 0.0912 |
| 480             | 5610 | 8.99         | 251    | 1    | 251    | 1334.77 | 0.000083330 | 0.0449 | 0.3596 |
| 120             | 5730 | 9.41         | 237    | 1    | 237    | 1260.32 | 0.000078682 | 0.0444 | 0.0888 |
| 30              | 5760 | shut<br>down |        |      |        |         |             |        |        |
| <b>Averages</b> |      | 7.73         | 355.18 | 1.00 | 355.18 | 1888.77 | 0.000117916 | 0.0542 | 0.1057 |

Total Emission in pounds:

5.3911

## **Pollutant Mass Removal Calculations**

$Q_{std} = (1 - \text{water vapor}) * \text{velocity} * (\text{PI} * (\text{diameter}/24)^2) * (528 \text{degrees R}/(\text{Temp} + 460))$

$\text{PPMg} = \text{PPM measured} * K$

$\text{Cg:m} = \text{PPMg} * (\text{Mg}/K3)$

$\text{Cg} = \text{Cg:m} * 62.43\text{E-}09 \text{ lb-m}^3/\text{mg-ft}^3$

$\text{PMRg} = \text{Cg} * Q_{std} * 60 \text{ min/hr}$

$\text{PMR} = \text{PMRg} * ((T2 - T1)/60)$

$Q_{std} = \text{Flow at DSCFM}$

**Vacuum** = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)

**Velocity** = rate at which air flow is measured at the blower discharging pipe (anemometer)

**Cross Sectional Area** = area in ft<sup>2</sup> of discharge stack

**Relative Humidity** = The % relative humidity of the air stream exiting from the blower discharge piping

**Water Vapor in %** = Pounds of water/ pound of dry air, derived from the psychrometric chart (temp vs relative humidity)

**PPM** = PPM measurements taken with an OVA/ PID at the blower discharge piping

**K** = Number of carbons in calibration gas: K=1

**PPMg** = PPMv, Volumetric concentration as gasoline emission, dry basis at STP

**Cg:m** =mg/dsm<sup>3</sup>, mass concentration of gasoline emission

**Mg** = 128 mg/mg-mole, molecular weight of gasoline

**K3** = 24.07 dsm<sup>3</sup>/1E6 mg-mole, mass to volume conversion factor at STP

**Cg** = lb/dcsf, mass concentration of gasoline emission, dry basis at STP

**PMRg** = lb/hr, pollutant mass removal rate of gasoline emission

**PMR** = pollutant mass removal of gasoline emission over time

**APPENDIX C**

**LIQUID DISPOSAL MANIFEST**

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

|  |                      |   |      |                       |                  |
|--|----------------------|---|------|-----------------------|------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>  |                      | 1. Generator's US EPA ID No.                          |      | Manifest Document No. | 2. Page 1 of     |
| 3. Generator's Name and Mailing Address  |                      | Former 378 Truck Stop<br>731 Hwy 378<br>Edgefield, SC |      |                       |                  |
| 4. Generator's Phone ( )   |                      |   |      |                       |                  |
| 5. Transporter 1 Company Name  | 6. US EPA ID Number  | A. State Transporter's ID                             |      |                       |                  |
| HEERA  |                      | B. Transporter 1 Phone                                |      |                       |                  |
| 7. Transporter 2 Company Name  | 8. US EPA ID Number  | C. State Transporter's ID                             |      |                       |                  |
|  |                      | D. Transporter 2 Phone                                |      |                       |                  |
| 9. Designated Facility Name and Site Address   | 10. US EPA ID Number | E. State Facility's ID                                |      |                       |                  |
| CWS<br>303 S. Mauldsby St.<br>Whiteville, NC   |                      | F. Facility's Phone                                   |      |                       |                  |
| 11. WASTE DESCRIPTION  |                      | Containers  |      | 13. Total Quantity    | 14. Unit WL/Vol. |
|  |                      | No.   | Type |                       |                  |
| a. Non-Reg. Petroleum Contact Water  |                      |   | TT   | 4,263                 | GA               |
| b.   |                      | # 946   |      | 15"                   |                  |
| c.   |                      |   |      |                       |                  |
| d.   |                      |   |      |                       |                  |
| G. Additional Descriptions for Materials Listed Above  |                      | H. Handling Codes for Wastes Listed Above             |      |                       |                  |
| 15. Special Handling Instructions and Additional Information   |                      |   |      |                       |                  |
| <b>16. GENERATOR'S CERTIFICATION:</b> I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. |                      |   |      |                       |                  |
| Printed/Typed Name   |                      | Signature   |      | Date                  |                  |
| Steve Rivecbrak  |                      | <i>[Signature]</i>                                    |      | 3   13   18           |                  |
| 17. Transporter 1 Acknowledgement of Receipt of Materials  |                      | Signature   |      | Date                  |                  |
| Printed/Typed Name   |                      | Signature   |      | Date                  |                  |
| DALE FULLER  |                      | <i>[Signature]</i>                                    |      | 3   13   18           |                  |
| 18. Transporter 2 Acknowledgement of Receipt of Materials  |                      | Signature   |      | Date                  |                  |
| Printed/Typed Name   |                      | Signature   |      | Date                  |                  |
|  |                      |   |      |                       |                  |
| 19. Discrepancy Indication Space   |                      |   |      |                       |                  |
| 20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.  |                      |   |      |                       |                  |
| Printed/Typed Name   |                      | Signature   |      | Date                  |                  |
| RYAN CA  |                      | <i>[Signature]</i>                                    |      | 3   13   18           |                  |

Custom Tanker Trailer  
 Tanker # 946  
 VIN: S110083

**Horizontal Tank Chart      Diameter: 75 in.      Length: 464 in.**

| Inches | Gallons | Inches | Gallons | Inches | Gallons | Inches | Gallons |
|--------|---------|--------|---------|--------|---------|--------|---------|
| 1in.   | 23.1    | 2in.   | 65.08   | 3in.   | 119.06  | 4in.   | 182.55  |
| 5in.   | 254.07  | 6in.   | 332.58  | 7in.   | 417.32  | 8in.   | 507.69  |
| 9in.   | 603.19  | 10in.  | 703.38  | 11in.  | 807.92  | 12in.  | 916.46  |
| 13in.  | 1028.74 | 14in.  | 1144.49 | 15in.  | 1263.46 | 16in.  | 1385.46 |
| 17in.  | 1510.26 | 18in.  | 1637.69 | 19in.  | 1767.56 | 20in.  | 1899.71 |
| 21in.  | 2033.99 | 22in.  | 2170.23 | 23in.  | 2308.3  | 24in.  | 2448.05 |
| 25in.  | 2589.35 | 26in.  | 2732.07 | 27in.  | 2876.09 | 28in.  | 3021.28 |
| 29in.  | 3167.52 | 30in.  | 3314.7  | 31in.  | 3462.69 | 32in.  | 3611.4  |
| 33in.  | 3760.7  | 34in.  | 3910.48 | 35in.  | 4060.65 | 36in.  | 4211.08 |
| 37in.  | 4361.67 | 38in.  | 4512.31 | 39in.  | 4662.9  | 40in.  | 4813.33 |
| 41in.  | 4963.5  | 42in.  | 5113.28 | 43in.  | 5262.58 | 44in.  | 5411.28 |
| 45in.  | 5559.28 | 46in.  | 5706.46 | 47in.  | 5852.7  | 48in.  | 5997.89 |
| 49in.  | 6141.91 | 50in.  | 6284.63 | 51in.  | 6425.93 | 52in.  | 6565.68 |
| 53in.  | 6703.75 | 54in.  | 6839.99 | 55in.  | 6974.26 | 56in.  | 7106.42 |
| 57in.  | 7236.29 | 58in.  | 7363.72 | 59in.  | 7488.52 | 60in.  | 7610.52 |
| 61in.  | 7729.49 | 62in.  | 7845.24 | 63in.  | 7957.51 | 64in.  | 8066.06 |
| 65in.  | 8170.6  | 66in.  | 8270.79 | 67in.  | 8366.29 | 68in.  | 8456.66 |
| 69in.  | 8541.4  | 70in.  | 8619.91 | 71in.  | 8691.43 | 72in.  | 8754.92 |
| 73in.  | 8808.9  | 74in.  | 8850.88 | 75in.  | 8873.98 |        |         |



2018/3/13 14:47



2018/3/13 14:48

South Carolina Department of Health  
and Environmental Control

11-5C

2600 Bull Street  
Columbia, S.C. 29201

Commissioner  
Michael D. Jarrett



RECEIVED

APR 02 1990

Beard  
Moses H. Clarkson, Jr., Chairman  
Gerald A. Kaynard, Vice-Chairman  
Oren L. Brady, Jr., Secretary  
Barbara P. Nuessle  
James A. Spruill, Jr.  
William H. Hester, M.D.  
Euta M. Colvin, M.D.

Environmental Quality Control  
613 South Main Street  
Greenwood, SC 29646

MEMORANDUM  
GROUND-WATER  
PROTECTION DIVISION

TO: Jim Hess  
Bureau of Drinking Water  
PROTECTION - EQC

FROM: R. W. Massey  
Upper Savannah EQC

SUBJECT: UST location /

DATE: 3-30-90

contaminated wells / Edgefield County

I have received a copy of Billy Dupre's memo to you dated 3-19-90 regarding an unresolved groundwater contamination investigation conducted many years ago. Billy's memo indicated that I thought that the facility was still selling gasoline. I stopped by to talk with Mrs. W. F. Scurry who lives directly across the highway from the station. She reported that the station is no longer selling gas and that the underground tanks had been removed.

Mrs. Scurry also reported that their well was still contaminated with petroleum, but that it appears to be oil rather than gasoline. She felt that the oil might be coming from a pit on the station's property where waste oil is reported to be disposed.

cc: Billy Dupre  
Paul Bristol

UST Docket 115T



File

South Carolina  
**DHEC**  
Department of Health and Environmental Control

May 30, 1990

P & O Oil Company  
401 Greenwood Highway  
Saluda, SC 29138  
Attn: Mildred Griffith

Re: Scurry/Anderson Well Contamination (PCAS 6786)  
Hydrocarbon Contamination of Local Wells  
Edgefield County

Dear Ms. Griffith:

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed analytical results on file which report free product in the Anderson water supply well (ground-water sample collected February 19, 1975) and 20 to 40 parts per million gasoline in the Scurry water supply well (ground-water sample collected December 2, 1975). In addition, a March 30, 1990 memo from the Upper Savannah EQC District Office indicates continued hydrocarbon impact to the Scurry well. These two wells are located on Highway 378 across from the 378 Truck Stop, Saluda SC.

*30 Day EXTENT  
to 24 Aug 90  
11 July 90 PNB*

Based upon this information, the ground-water contamination problems at this site require an in-depth investigation (Section 280.65(4) of the South Carolina Underground Storage Tank Control Regulations). Please submit an assessment plan, on or before July 20, 1990 that will determine the extent (horizontal and vertical) and severity of contamination at the site for Departmental review and approval. This plan (2 copies) must be certified by a South Carolina registered Professional Geologist with experience in ground-water investigations and should include, but not be limited to, the following:

- 1) List of topics that will be included in the assessment report including a brief summary of events and actions taken;
- 2) Scaled base map which shows topography, major highways, surrounding land use, nearby private and public water supply wells;
- 3) Scaled site map displaying the location of underground storage tanks with associated piping, underground utilities, and proposed monitoring well locations for the shallow aquifer (three triangulated wells minimum) and deep aquifer (one minimum);
- 4) Monitor well installation methods, sampling methods, and analytical protocol;

Commissioner: Michael D. Jarrett Board: Henry S. Jordan MD, Chairman John B. Pate, MD, Vice Chairman William E. Applegate, III, Secretary  
Toney Graham, Jr., MD John H. Burriss Richard E. Jabbour, DDS Currie B. Spivey, Jr.

P & O Oil Company  
May 30, 1990  
Page 2

- 5) Information regarding current use of any nearby wells, drillers logs (if available), and the approximate depth to the water table at the site;
- 6) A proposal to conduct water quality tests on the nearby domestic wells; and,
- 7) An implementation schedule.

Please include a brief history of the underground storage tanks at this site as well as any available tank test results or environmental sample data.

On all correspondence concerning this site, please reference PCAS 6786. If there are any questions concerning this project, please call me at (803) 734-4665.

Sincerely,



Paul M. Bergstrand, Hydrogeologist  
Trust Section  
Ground-Water Protection Division

PMB/pmb  
6786-1

Enclosure: SC UST Control Regulations R.61-92, Part 280

cc: Billy Dupree, Upper Savannah District EQC  
Reggie Massey, Upper Savannah District EQC  
Paul Bristol, Midlands District EQC  
Frank Wilkerson

Wilkerson Fuel Company, Inc.  
P.O. Box 4483 2835  
Rock Hill, SC 29731

6786-1

Secretary



# WILKERSON FUEL COMPANY, INC.

P. O. Box 2835  
Rock Hill, S. C. 29731  
(803) 324-4080

RECEIVED

June 13, 1990

JUN 14 1990 *pm*

GROUND-WATER  
PROTECTION DIVISION

Mr. Paul M. Bergstrand  
Hydrogeologist, Trust Section  
Ground Water Protection Division  
Department of Health and Environmental Control  
2600 Bull Street  
Columbia, S.C. 29201

Re: Scurry/Anderson Well Contamination (PCAS 6786)  
Hydrocarbon Contamination of Local Wells - Edgefield County

Dear Mr. Bergstrand:

Copy of your letter of May 30 with reference to alleged contamination of the captioned well has been received by Wilkerson Fuel Co., Inc. Wilkerson Fuel purchased P & O Oil Company in 1986. Wilkerson Fuel maintained meter readings on product sold on the premises and is convinced that no leaks occurred from underground tanks during our occupancy of the property. It is our understanding that there was an alleged leak on the premises approximately fifteen years ago. The property in question is owned by Mr. Jolly Owdom. Wilkerson Fuel is a tenant of Mr. Owdom.

At the time of the alleged leak some fifteen years ago, Federated Mutual Insurance Company, Mr. Owdom's insurance carrier, assumed responsibility. Your letter has been referred to Federated, and we are awaiting their response.

It is the position of Wilkerson Fuel Co., Inc. that any contamination from underground tanks occurred prior to our acquisition of P & O Oil Company and is the responsibility of either Mr. Owdom, owner of the property, or his insurance carrier, Federated. We will advise you of the response we receive from Federated Mutual Insurance Company.

Very truly yours,

  
W. David Bratton, President

WDB/vh

UST Docket 117T

File



July 11, 1990

Mr. Sam Bratton  
Wilkerson Fuel Company, Inc.  
P.O. Box 2835  
Rock Hill, SC 29731

Re: Scurry/Anderson Well Contamination (PCAS 6786)  
Assessment Plan Extension  
Edgefield County

Dear Mr. Bratton:

Your request for an extension for the July 20, 1990 deadline has been approved. Please submit the assessment plan on or before August 24, 1990.

On all correspondence concerning this site, please reference PCAS 6786. If you have any questions regarding the above, please call me at (803) 734-4665.

Sincerely,

Paul M. Bergstrand, Hydrogeologist  
Ground Water Protection Division  
Bureau of Drinking Water Protection

PMB/pmb  
6786-2

cc: Billy Dupree, Upper Savannah District EQC  
Reggie Massey, Upper Savannah District EQC  
Paul Bristol, Central Midlands District EQC

UST Docket 1187

*Scurry/Anderson*

**SO CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**  
J. MARION SIMS BUILDING • COLUMBIA, SOUTH CAROLINA 29201  
PHONE 803-734-5000

┌ SAM BRATTON P.O. 324-4059 ┐  
P+O Oil Co. PMS 6786. Edgefield Co.  
EXTENSION - └ ┘

**MEMO**  
DATE: 11 July 90  
SAM J

30 day Extension Requested - OK! - Aug 24, '90 / PMS

PAGE 1: SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL  
UNDERGROUND STORAGE TANK PROJECT INFORMATION SYSTEM

SITE : [SCURRY/ANDERSON PETROLEUM CONTAMINATION ] LAST UPDATE: [07/11/90]  
COUNTY: [EDGEFIELD ] PROJECT HYDROLOGIST: [REBECCA] PCAS: [6786]  
STREET: [HWY 378 WEST ] CITY: [SALUDA ] STATE: [SC]  
ZIP : [ - ] SITE PHONE NO.: [(803) - ] PERMIT: [N-41-NO-07960]  
*Devlin*

----- PROJECT TYPE ----- ESTIMATED COSTS -----

(PLACE AN X NEXT TO ONE OF THE FOLLOWING) (IF TRUST/SUPERB FUNDS ARE USED)  
RESPONSIBLE PARTY LEAD: [ ]  
RESPONSIBLE PARTY LEAD WITH INSURER: [ ] DEDUCTIBLE: [ 0.00]  
RESPONSIBLE PARTY LEAD WITH SUPERB: [ ]  
DHEC LEAD WITH FEDERAL TRUST MONEY: [ ] TRUST COST: [ 0.00]  
DHEC LEAD WITH STATE SUPERB MONEY: [ ] SUPERB COST: [ 0.00]

----- RESPONSIBLE PARTY (RP) INFORMATION -----

RP NAME(S): [WILKERSON FUEL COMPANY ]  
[ ]  
[378 TRUCK STOP ]  
STREET: [P.O BOX 2835 ]  
CITY: [ROCK HILL ] STATE: [SC] ZIP CODE: [29731- ]  
PHONE NO.: [(803)324-4080] CONTACT: [SAM BRATTON ]

----- RELEASE INFORMATION -----

LEAK DETECTED: [10/03/74] REPORTED: [10/03/74] REPORTED BY: [ ]  
(PUT AN X IN APPROPRIATE BOX(ES))

| SOURCE         |               | PRODUCT TYPE  |  |
|----------------|---------------|---------------|--|
| TANK LEAK: [ ] | GASOLINE      | OTHERS        |  |
| PIPE LEAK: [ ] | UNLEADED: [ ] | DIESEL: [ ]   |  |
| PUMP LEAK: [ ] | LEADED: [ ]   | KEROSENE: [ ] |  |
| OVERFILL: [ ]  | UNKNOWN: [X]  | AVFUEL: [ ]   |  |
| UNKNOWN: [X]   |               | FUEL OIL: [ ] |  |
|                |               | OTHER: [ ]    |  |

TANK(S) TESTED: [N] DATE: [ / / ] LINES TESTED: [N] DATE: [ / / ]  
SOIL CONTAMINATION CONFIRMED: [ ] G-W CONTAMINATION CONFIRMED: [ ]  
RELEASE CONFIRMED: [ ] DATE CONFIRMED BY DHEC: [ / / ]  
SITE INVESTIGATION COMPLETED: [ ] DATE COMPLETED: [ / / ]  
EMERGENCY RESPONSE TAKEN: [ ] DATE TAKEN: [ / / ]

----- CLEANUPS INITIATED -----

CLEANUP INITIATED: [ ] DATE: [ / / ] REMOVAL OF SOURCE INITIATED: [ ]  
MEASURES TO CONTROL THE MIGRATION OF THE RELEASE INITIATED: [ ]  
MANAGEMENT OF CONTAMINATED SOILS INITIATED: [ ]  
REMOVAL OF FREE PRODUCT INITIATED: [ ]  
20 DAY INITIAL ABATEMENT REPORT RECEIVED: [ ] DATE: [ / / ]  
FREE PRODUCT RECOVERY NECESSARY: [ ]  
REPORT DUE: [ / / ] REPORT RECEIVED: [ / / ]

PETROLEUM RELEASE UNDER CONTROL: [ ] DATE: [ / / ]  
REMOVAL OF SOURCE ONGOING: [ ] HAZARDS ELIMINATED: [ ]  
MANAGEMENT OF CONT. SOILS ONGOING: [ ] FREE PRODUCT REMOVAL ON GOING: [ ]  
DETERMINATION AS TO THE NECESSITY OF ALTERNATE WATER SUPPLIES WAS MADE: [ ]  
SITE CHARACTERIZATION REPORT DUE: [ / / ] RECEIVED: [ / / ]

----- SITE INVESTIGATION (ASSESSMENT) -----

FURTHER INVESTIGATION DEEMED APPROPRIATE: [ ]  
PLAN DUE DATE: [ / / ] PLAN RECEIVED: [ / / ]  
REVISED PLAN DUE DATE: [ / / ] REVISED PLAN RECEIVED: [ / / ]  
PLAN APPROVED: [ / / ]  
REPORT DUE DATE: [ / / ] REPORT RECEIVED: [ / / ]

----- CORRECTIVE ACTION -----

SOIL REHABILITATION REQUIRED: [ ] GROUND-WATER RECOVERY REQUIRED: [Y]  
CORRECTIVE ACTION PLAN DUE: [ / / ] CAP RECEIVED: [ / / ]  
REVISED CAP DUE: [ / / ] REVISED CAP RECEIVED: [ / / ]  
CAP APPROVED: [ / / ] DATE OF PUBLIC NOTICE: [ / / ]

----- DISCHARGE ALTERNATIVES -----

SURFACE WATER: [ ] INFILTRATION GALLERY: [ ]  
SYSTEM EFFLUENT TO: INJECTION: [ ] POTW: [ ]  
OTHER: [ ] BATCH TREAT W/OFFSITE DISP: [ ]  
DISCHARGE PERMIT APPLICATION RECEIVED: [ / / ]  
DRAFT DISCHARGE PERMIT ISSUED: [ / / ] DRAFT DP REVISED: [ / / ]  
FINAL DISCHARGE PERMIT ISSUED: [ / / ] PER/FER RECEIVED: [ / / ]  
PER/FER SENT TO IWW: [ / / ] PERMIT TO CONSTRUCT ISSUED: [ / / ]  
PERMIT TO OPERATE ISSUED: [ / / ] DATE STARTED: [ / / ]

----- AIR QUALITY -----

PERMIT NECESSARY: [ ] APPLICATION RECEIVED: [ / / ] ISSUED: [ / / ]

----- RECOVERY / MONITORING -----

REPORTS DUE: [ / / ] REPORTS RECEIVED: [ / / ]  
IS RECOVERY EFFECTIVE: [ ] IF NOT, THEN DATE ISSUED PUBLIC NOTICE: [ / / ]  
CLEANUP COMPLETED: [ ] DATE: [ / / ] PROJECT CLOSED: [ ] DATE: [ / / ]

----- ENFORCEMENT INFORMATION -----

CONSENT ORDER REQUESTED: [ ] DATE: [ / / ]  
NONCOMPLIANCE WITH APPROPRIATE ACTIONS OUTLINED: [ ]  
ROUTINE RECOVERY COMPLIANCE: [ ] DATE CONSENT ORDER ISSUED: [ / / ]  
NOTICE OF VIOLATIONS ISSUED: [ ]  
REMARKS:

(PCAS-6786) - Later well sampling in 1984 indicated no ground-water contamination.



Pace Analytical Services, Inc.  
2225 Riverside Dr.  
Asheville, NC 28804  
(828)254-7176

Pace Analytical Services, Inc.  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

November 08, 2010

Ms. Debra Thoma  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

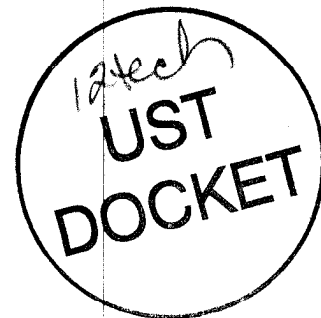
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Erin Waters*

Erin Waters for  
Renee Spencer  
renee.spencer@pacelabs.com  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/LELAP Certification #: 04034  
New Jersey Certification #: NC012  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
Pennsylvania Certification #: 68-00784  
South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003  
Virginia Certification #: 00213  
Connecticut Certification #: PH-0104  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DHH Drinking Water # LA 100031  
West Virginia Certification #: 357

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab ID     | Sample ID    | Matrix | Date Collected | Date Received  |
|------------|--------------|--------|----------------|----------------|
| 9281530001 | 07960 WSW 13 | Water  | 11/04/10 10:30 | 11/05/10 13:45 |
| 9281530002 | 07960 WSW 14 | Water  | 11/04/10 10:45 | 11/05/10 13:45 |
| 9281530003 | 07960 WSW 8  | Water  | 11/04/10 11:00 | 11/05/10 13:45 |
| 9281530004 | 07960 WSW 1  | Water  | 11/04/10 11:30 | 11/05/10 13:45 |

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab ID     | Sample ID    | Method   | Analysts | Analytes Reported | Laboratory |
|------------|--------------|----------|----------|-------------------|------------|
| 9281530001 | 07960 WSW 13 | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |
| 9281530002 | 07960 WSW 14 | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |
| 9281530003 | 07960 WSW 8  | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |
| 9281530004 | 07960 WSW 1  | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |

**REPORT OF LABORATORY ANALYSIS**

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**HITS ONLY**

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab Sample ID<br>Method | Client Sample ID<br>Parameters | Result | Units | Report Limit | Analyzed       | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| <b>9281530001</b>       | <b>07960 WSW 13</b>            |        |       |              |                |            |
| EPA 8260                | Methyl-tert-butyl ether        | 0.32J  | ug/L  | 1.0          | 11/07/10 23:33 |            |
| <b>9281530002</b>       | <b>07960 WSW 14</b>            |        |       |              |                |            |
| EPA 8260                | Methyl-tert-butyl ether        | 1.3    | ug/L  | 1.0          | 11/07/10 23:58 |            |
| <b>9281530003</b>       | <b>07960 WSW 8</b>             |        |       |              |                |            |
| EPA 8260                | tert-Amyl Alcohol              | 130    | ug/L  | 100          | 11/08/10 00:24 |            |
| EPA 8260                | 1,2-Dichloroethane             | 8.7    | ug/L  | 1.0          | 11/08/10 00:24 |            |
| EPA 8260                | Diisopropyl ether              | 0.23J  | ug/L  | 1.0          | 11/08/10 00:24 |            |
| EPA 8260                | Methyl-tert-butyl ether        | 0.83J  | ug/L  | 1.0          | 11/08/10 00:24 |            |
| <b>9281530004</b>       | <b>07960 WSW 1</b>             |        |       |              |                |            |
| EPA 8260                | tert-Butyl Alcohol             | 7.5J   | ug/L  | 50.0         | 11/08/10 00:49 |            |
| EPA 8260                | 1,2-Dichloroethane             | 2.6    | ug/L  | 1.0          | 11/08/10 00:49 |            |

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

Sample: 07960 WSW 13      Lab ID: 9281530001      Collected: 11/04/10 10:30      Received: 11/05/10 13:45      Matrix: Water

| Parameters                   | Results | Units   | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|---|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011      Preparation Method: EPA 8011 |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/07/10 14:30 | 11/07/10 15:56 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 99 %    |   | 60-140       |       | 1  | 11/07/10 14:30 | 11/07/10 15:56 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method: EPA 8260                                   |              |       |    |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 50.0  | 1  |                | 11/07/10 23:33 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 11/07/10 23:33 | 994-05-8    |      |
| Benzene                      | ND      | ug/L  | 1.0          | 0.25  | 1  |                | 11/07/10 23:33 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 50.0  | 1  |                | 11/07/10 23:33 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L  | 50.0         | 3.6   | 1  |                | 11/07/10 23:33 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 11/07/10 23:33 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 11/07/10 23:33 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 11/07/10 23:33 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L  | 200          | 33.0  | 1  |                | 11/07/10 23:33 | 64-17-5     |      |
| Ethylbenzene                 | ND      | ug/L  | 1.0          | 0.30  | 1  |                | 11/07/10 23:33 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 11/07/10 23:33 | 637-92-3    |      |
| Methyl-tert-butyl ether      | 0.32J   | ug/L  | 1.0          | 0.21  | 1  |                | 11/07/10 23:33 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 11/07/10 23:33 | 91-20-3     |      |
| Toluene                      | ND      | ug/L  | 1.0          | 0.26  | 1  |                | 11/07/10 23:33 | 108-88-3    |      |
| Xylene (Total)               | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 11/07/10 23:33 | 1330-20-7   |      |
| m&p-Xylene                   | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 11/07/10 23:33 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L  | 1.0          | 0.23  | 1  |                | 11/07/10 23:33 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 100 %   |   | 70-130       |       | 1  |                | 11/07/10 23:33 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 101 %   |   | 70-130       |       | 1  |                | 11/07/10 23:33 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 102 %   |   | 70-130       |       | 1  |                | 11/07/10 23:33 | 17060-07-0  |      |
| Toluene-d8 (S)               | 96 %    |   | 70-130       |       | 1  |                | 11/07/10 23:33 | 2037-26-5   |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

Sample: 07960 WSW 14      Lab ID: 9281530002      Collected: 11/04/10 10:45      Received: 11/05/10 13:45      Matrix: Water

| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b>                                  |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8011      Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                       | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/07/10 14:30 | 11/07/10 16:16 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)                                   | 99 %    |       | 60-140       |       | 1  | 11/07/10 14:30 | 11/07/10 16:16 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b>                                  |         |       |              |       |    |                |                |             |      |
| Analytical Method: EPA 8260                                   |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 11/07/10 23:58 | 75-85-4     |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 11/07/10 23:58 | 994-05-8    |      |
| Benzene   | ND      | ug/L  | 1.0          | 0.25  | 1  |                | 11/07/10 23:58 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 11/07/10 23:58 | 624-95-3    |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 50.0         | 3.6   | 1  |                | 11/07/10 23:58 | 75-65-0     |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 11/07/10 23:58 | 762-75-4    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 11/07/10 23:58 | 107-06-2    |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 11/07/10 23:58 | 108-20-3    |      |
| Ethanol   | ND      | ug/L  | 200          | 33.0  | 1  |                | 11/07/10 23:58 | 64-17-5     |      |
| Ethylbenzene  | ND      | ug/L  | 1.0          | 0.30  | 1  |                | 11/07/10 23:58 | 100-41-4    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 11/07/10 23:58 | 637-92-3    |      |
| Methyl-tert-butyl ether                                       | 1.3     | ug/L  | 1.0          | 0.21  | 1  |                | 11/07/10 23:58 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 11/07/10 23:58 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 1.0          | 0.26  | 1  |                | 11/07/10 23:58 | 108-88-3    |      |
| Xylene (Total)  | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 11/07/10 23:58 | 1330-20-7   |      |
| m&p-Xylene  | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 11/07/10 23:58 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 1.0          | 0.23  | 1  |                | 11/07/10 23:58 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)                                      | 102 %   |       | 70-130       |       | 1  |                | 11/07/10 23:58 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 101 %   |       | 70-130       |       | 1  |                | 11/07/10 23:58 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)                                     | 100 %   |       | 70-130       |       | 1  |                | 11/07/10 23:58 | 17060-07-0  |      |
| Toluene-d8 (S)  | 96 %    |       | 70-130       |       | 1  |                | 11/07/10 23:58 | 2037-26-5   |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

Sample: 07960 WSW 8      Lab ID: 9281530003      Collected: 11/04/10 11:00      Received: 11/05/10 13:45      Matrix: Water

| Parameters  | Results | Units | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-------------|------|
|   |         |       | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b>                                  |         |       |        |       |    |                |                |             |      |
| Analytical Method: EPA 8011      Preparation Method: EPA 8011 |         |       |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)                                       | ND      | ug/L  | 0.020  | 0.020 | 1  | 11/07/10 14:30 | 11/07/10 16:36 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)                                   | 100     | %     | 60-140 |       | 1  | 11/07/10 14:30 | 11/07/10 16:36 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b>                                  |         |       |        |       |    |                |                |             |      |
| Analytical Method: EPA 8260                                   |         |       |        |       |    |                |                |             |      |
| tert-Amyl Alcohol   | 130     | ug/L  | 100    | 50.0  | 1  |                | 11/08/10 00:24 | 75-85-4     |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0   | 0.10  | 1  |                | 11/08/10 00:24 | 994-05-8    |      |
| Benzene   | ND      | ug/L  | 1.0    | 0.25  | 1  |                | 11/08/10 00:24 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100    | 50.0  | 1  |                | 11/08/10 00:24 | 624-95-3    |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 50.0   | 3.6   | 1  |                | 11/08/10 00:24 | 75-65-0     |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0   | 1.9   | 1  |                | 11/08/10 00:24 | 762-75-4    |      |
| 1,2-Dichloroethane  | 8.7     | ug/L  | 1.0    | 0.12  | 1  |                | 11/08/10 00:24 | 107-06-2    |      |
| Diisopropyl ether   | 0.23J   | ug/L  | 1.0    | 0.12  | 1  |                | 11/08/10 00:24 | 108-20-3    |      |
| Ethanol   | ND      | ug/L  | 200    | 33.0  | 1  |                | 11/08/10 00:24 | 64-17-5     |      |
| Ethylbenzene  | ND      | ug/L  | 1.0    | 0.30  | 1  |                | 11/08/10 00:24 | 100-41-4    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0   | 0.070 | 1  |                | 11/08/10 00:24 | 637-92-3    |      |
| Methyl-tert-butyl ether                                       | 0.83J   | ug/L  | 1.0    | 0.21  | 1  |                | 11/08/10 00:24 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 1.0    | 0.24  | 1  |                | 11/08/10 00:24 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 1.0    | 0.26  | 1  |                | 11/08/10 00:24 | 108-88-3    |      |
| Xylene (Total)  | ND      | ug/L  | 2.0    | 0.66  | 1  |                | 11/08/10 00:24 | 1330-20-7   |      |
| m&p-Xylene  | ND      | ug/L  | 2.0    | 0.66  | 1  |                | 11/08/10 00:24 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 1.0    | 0.23  | 1  |                | 11/08/10 00:24 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)                                      | 101     | %     | 70-130 |       | 1  |                | 11/08/10 00:24 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 101     | %     | 70-130 |       | 1  |                | 11/08/10 00:24 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)                                     | 102     | %     | 70-130 |       | 1  |                | 11/08/10 00:24 | 17060-07-0  |      |
| Toluene-d8 (S)  | 98      | %     | 70-130 |       | 1  |                | 11/08/10 00:24 | 2037-26-5   |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

Sample: 07960 WSW 1 Lab ID: 9281530004 Collected: 11/04/10 11:30 Received: 11/05/10 13:45 Matrix: Water

| Parameters                   | Results | Units  | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------------|-------|----|----------------|----------------|-------------|------|
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020 | 1  | 11/07/10 14:31 | 11/07/10 16:56 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 99 %    |  | 60-140       |       | 1  | 11/07/10 14:31 | 11/07/10 16:56 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method: EPA 8260                              |              |       |    |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 50.0  | 1  |                | 11/08/10 00:49 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 0.10  | 1  |                | 11/08/10 00:49 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 1.0          | 0.25  | 1  |                | 11/08/10 00:49 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 50.0  | 1  |                | 11/08/10 00:49 | 624-95-3    |      |
| tert-Butyl Alcohol           | 7.5J    | ug/L   | 50.0         | 3.6   | 1  |                | 11/08/10 00:49 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 1.9   | 1  |                | 11/08/10 00:49 | 762-75-4    |      |
| 1,2-Dichloroethane           | 2.6     | ug/L   | 1.0          | 0.12  | 1  |                | 11/08/10 00:49 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 1.0          | 0.12  | 1  |                | 11/08/10 00:49 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200          | 33.0  | 1  |                | 11/08/10 00:49 | 64-17-5     |      |
| Ethylbenzene                 | ND      | ug/L   | 1.0          | 0.30  | 1  |                | 11/08/10 00:49 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 0.070 | 1  |                | 11/08/10 00:49 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 1.0          | 0.21  | 1  |                | 11/08/10 00:49 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L   | 1.0          | 0.24  | 1  |                | 11/08/10 00:49 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 1.0          | 0.26  | 1  |                | 11/08/10 00:49 | 108-88-3    |      |
| Xylene (Total)               | ND      | ug/L   | 2.0          | 0.66  | 1  |                | 11/08/10 00:49 | 1330-20-7   |      |
| m&p-Xylene                   | ND      | ug/L   | 2.0          | 0.66  | 1  |                | 11/08/10 00:49 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 1.0          | 0.23  | 1  |                | 11/08/10 00:49 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 103 %   |  | 70-130       |       | 1  |                | 11/08/10 00:49 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 102 %   |  | 70-130       |       | 1  |                | 11/08/10 00:49 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 103 %   |  | 70-130       |       | 1  |                | 11/08/10 00:49 | 17060-07-0  |      |
| Toluene-d8 (S)               | 97 %    |  | 70-130       |       | 1  |                | 11/08/10 00:49 | 2037-26-5   |      |



**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

QC Batch: OEXT/11768 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

METHOD BLANK: 524298 Matrix: Water  
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 11/07/10 14:55 |            |
| 1-Chloro-2-bromopropane (S) | %     | 99           | 60-140          | 11/07/10 14:55 |            |

LABORATORY CONTROL SAMPLE & LCSD: 524299 524300

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.30       | 0.31        | 106       | 108        | 60-140       | 2   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 100       | 101        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524301 524302

| Parameter                   | Units | 9281516001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|-----------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | .28            | .28             | 0.31      | 0.31       | 110      | 110       | 60-140       | 0       | 20   |
| 1-Chloro-2-bromopropane (S) | %     |                   |                |                 |           |            | 110      | 110       | 60-140       |         |      |

SAMPLE DUPLICATE: 524303

| Parameter                   | Units | 9281516004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 117               | 115        | 0   |         |            |

### QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

QC Batch: MSV/12943 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

METHOD BLANK: 524256 Matrix: Water  
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 11/07/10 23:08 |            |
| Benzene                   | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Ethanol                   | ug/L  | ND           | 200             | 11/07/10 23:08 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 11/07/10 23:08 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| m&p-Xylene                | ug/L  | ND           | 2.0             | 11/07/10 23:08 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Naphthalene               | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| o-Xylene                  | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 11/07/10 23:08 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 11/07/10 23:08 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 50.0            | 11/07/10 23:08 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 11/07/10 23:08 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Xylene (Total)            | ug/L  | ND           | 2.0             | 11/07/10 23:08 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98           | 70-130          | 11/07/10 23:08 |            |
| 4-Bromofluorobenzene (S)  | %     | 101          | 70-130          | 11/07/10 23:08 |            |
| Dibromofluoromethane (S)  | %     | 98           | 70-130          | 11/07/10 23:08 |            |
| Toluene-d8 (S)            | %     | 97           | 70-130          | 11/07/10 23:08 |            |

LABORATORY CONTROL SAMPLE: 524257

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50          | 47.1       | 94        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000        | 1040       | 104       | 70-130       |            |
| Benzene                 | ug/L  | 50          | 51.0       | 102       | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50          | 47.8       | 96        | 70-130       |            |
| Ethanol                 | ug/L  | 2000        | 1900       | 95        | 70-130       |            |
| Ethyl-tert-butyl ether  | ug/L  | 100         | 102        | 102       | 70-130       |            |
| Ethylbenzene            | ug/L  | 50          | 51.6       | 103       | 70-130       |            |
| m&p-Xylene              | ug/L  | 100         | 105        | 105       | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50          | 49.9       | 100       | 70-130       |            |
| Naphthalene             | ug/L  | 50          | 54.0       | 108       | 70-130       |            |
| o-Xylene                | ug/L  | 50          | 53.7       | 107       | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000        | 1080       | 108       | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100         | 110        | 110       | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500         | 467        | 93        | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400         | 440        | 110       | 70-130       |            |
| Toluene                 | ug/L  | 50          | 51.5       | 103       | 70-130       |            |

Date: 11/08/2010 04:24 PM

### REPORT OF LABORATORY ANALYSIS

Page 11 of 14

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

LABORATORY CONTROL SAMPLE: 524257

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Xylene (Total)            | ug/L  | 150         | 159        | 106       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 90        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 104       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 94        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524258 524259

| Parameter                 | 9281530004 |        | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual  |
|---------------------------|------------|--------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|-------|
|                           | Units      | Result | Conc.          | Conc.           | Result    | Result     | % Rec    | % Rec     |              | RPD     |       |
| 1,2-Dichloroethane        | ug/L       | 2.6    | 50             | 50              | 52.7      | 57.5       | 100      | 110       | 70-130       | 9       | 30    |
| 3,3-Dimethyl-1-Butanol    | ug/L       | ND     | 1000           | 1000            | 1000      | 1150       | 100      | 115       | 70-130       | 14      | 30    |
| Benzene                   | ug/L       | ND     | 50             | 50              | 52.9      | 56.6       | 106      | 113       | 70-130       | 7       | 30    |
| Diisopropyl ether         | ug/L       | ND     | 50             | 50              | 48.8      | 54.7       | 98       | 109       | 70-130       | 11      | 30    |
| Ethanol                   | ug/L       | ND     | 2000           | 2000            | 1920      | 2170       | 96       | 109       | 70-130       | 12      | 30    |
| Ethyl-tert-butyl ether    | ug/L       | ND     | 100            | 100             | 103       | 116        | 103      | 116       | 70-130       | 12      | 30    |
| Ethylbenzene              | ug/L       | ND     | 50             | 50              | 55.4      | 58.4       | 111      | 117       | 70-130       | 5       | 30    |
| m&p-Xylene                | ug/L       | ND     | 100            | 100             | 113       | 121        | 113      | 121       | 70-130       | 7       | 30    |
| Methyl-tert-butyl ether   | ug/L       | ND     | 50             | 50              | 49.1      | 56.1       | 98       | 112       | 70-130       | 13      | 30    |
| Naphthalene               | ug/L       | ND     | 50             | 50              | 53.2      | 60.5       | 106      | 121       | 70-130       | 13      | 30    |
| o-Xylene                  | ug/L       | ND     | 50             | 50              | 56.7      | 60.9       | 113      | 122       | 70-130       | 7       | 30    |
| tert-Amyl Alcohol         | ug/L       | ND     | 1000           | 1000            | 1070      | 1220       | 106      | 121       | 70-130       | 13      | 30    |
| tert-Amylmethyl ether     | ug/L       | ND     | 100            | 100             | 112       | 120        | 112      | 120       | 70-130       | 7       | 30    |
| tert-Butyl Alcohol        | ug/L       | 7.5J   | 500            | 500             | 502       | 582        | 99       | 115       | 70-130       | 15      | 30    |
| tert-Butyl Formate        | ug/L       | ND     | 400            | 400             | ND        | ND         | 0        | 0         | 70-130       |         | 30 P5 |
| Toluene                   | ug/L       | ND     | 50             | 50              | 55.4      | 57.7       | 111      | 115       | 70-130       | 4       | 30    |
| 1,2-Dichloroethane-d4 (S) | %          |        |                |                 |           |            | 91       | 93        | 70-130       |         |       |
| 4-Bromofluorobenzene (S)  | %          |        |                |                 |           |            | 104      | 104       | 70-130       |         |       |
| Dibromofluoromethane (S)  | %          |        |                |                 |           |            | 92       | 95        | 70-130       |         |       |
| Toluene-d8 (S)            | %          |        |                |                 |           |            | 102      | 99        | 70-130       |         |       |

## QUALIFIERS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab ID     | Sample ID    | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|--------------|-----------------|------------|-------------------|------------------|
| 9281530001 | 07960 WSW 13 | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530002 | 07960 WSW 14 | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530003 | 07960 WSW 8  | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530004 | 07960 WSW 1  | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530001 | 07960 WSW 13 | EPA 8260        | MSV/12943  |                   |                  |
| 9281530002 | 07960 WSW 14 | EPA 8260        | MSV/12943  |                   |                  |
| 9281530003 | 07960 WSW 8  | EPA 8260        | MSV/12943  |                   |                  |
| 9281530004 | 07960 WSW 1  | EPA 8260        | MSV/12943  |                   |                  |

Commissioner: Michael D. Jarrett

Board: John B. Pate, MD, Chairman  
William E. Applegate, III, Vice Chairman  
John H. Burriss, Secretary

*Promoting Health, Protecting the Environment*

Toney Graham, Jr., MD  
Richard E. Jabbour, DDS  
Henry S. Jordan, MD  
Currie B. Spivey, Jr.

File

September 7, 1990

Mr. Sam Bratton  
Wilkerson Fuel Company, Inc.  
P.O. Box 2835  
Rock Hill, SC 29731

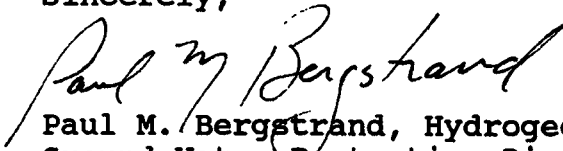
Re: Scurry/Anderson Well Contamination (PCAS 6786)  
Assessment Plan Extension  
Edgefield County

Dear Mr. Bratton:

Your request for an extension for the August 24, 1990 deadline has been approved. Please submit the assessment plan on or before October 30, 1990. This is a second deadline extension for this site. Failure to submit the requested plan by the revised due date may result in the initiation of enforcement action.

On all correspondence concerning this site, please reference PCAS 6786. If you have any questions regarding the above, please call me at (803) 734-4665.

Sincerely,



Paul M. Bergstrand, Hydrogeologist  
Ground Water Protection Division  
Bureau of Drinking Water Protection

PMB/pmb  
6786-3

cc: Billy Dupree, Upper Savannah District EQC  
Reggie Massey, Upper Savannah District EQC  
Paul Bristol, Central Midlands District EQC

UST Docket 120T

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL  
J. MARION SIMS BUILDING • COLUMBIA, SOUTH CAROLINA 29201  
PHONE 803-734-5000

Sam BRATTON - Wilkerson Oil Co.  
Scurry Anderson PCAS-6786 Edgefield Co  
Extension

MEMO  
DATE: 7 Sept 90  
845

Trying to work through Federated Insurance and  
Odom Oil need until Oct 30. OK. J. Odom  
Still owns property. We need an AP regardless of  
who pays. PMB

**JOHN P. GETTYS**

ATTORNEY-AT-LAW  
514 OAKLAND AVENUE  
ROCK HILL, SOUTH CAROLINA 29730

P.O. BOX 707  
TELEPHONE (803) 328-9895

October 5, 1990

**RECEIVED**

OCT 09 1990 *pmb*

GROUND-WATER

**PROTECTION DIVISION**

Mr. Paul M. Bergstrand  
Hydrogeologist, Trust Section  
Ground Water Protection Division  
Department of Health and Environmental Control  
2600 Bull Street  
Columbia, S. C. 29201

RE: Scurry/Anderson Well Contamination (PCAS 6786)  
Hydrocarbon Contamination of Local Wells - Edgefield County

Dear Mr. Bergstrand:

W. David Bratton, President of Wilkerson Fuel Co., Inc., has requested that I respond to your letter dated September 7, 1990 with reference to alleged contamination of wells in Edgefield County, South Carolina. In your letter you request that Wilkerson Fuel submit an Assessment Plan on or before October 30, 1990.

Wilkerson Fuel Co., Inc., has contacted Federated Insurance Company, the insurer of P & O Oil Company, Inc., with reference to the alleged contamination and any insurance coverage available under the policy. Federated has responded by letter dated September 24, 1990, copy of which is enclosed.

Wilkerson Fuel supplied gasoline to the subject station from 1986 to 1987 and maintained a perpetual inventory of the product until tanks were removed in 1987. No leaks occurred during this time.

The alleged contamination apparently occurred in 1975, at which time the property was owned by Mr. Odom, to the best of Mr. Bratton's knowledge. Mr. Bratton also advises me that he is informed that Mr. Odom was aware of the alleged contamination in 1975 or 1976, at which time he drilled a new well.

It is the position of Wilkerson Fuel Co., Inc. that any contamination to surrounding property from gasoline leaks at the subject station, if any, occurred approximately 15 years ago when the station was owned and operated by Mr. Odom, that Mr. Odom took action to correct the problem and that any Assessment Plan required to be submitted should be

UST Docket 121J

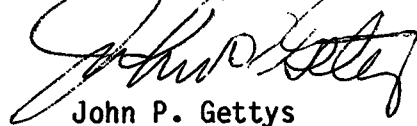


Paul M. Bergstrand  
Page 2  
October 5, 1990

submitted by Mr. Odom.

Wilkerson Fuel Co., Inc. has never owned the subject premises and has occupied the property as a tenant of Mr. Odom only since 1986. Wilkerson Fuel Co., Inc. will be happy to cooperate in any way that it can in resolving this matter; however, as a tenant only for the past 4 years, Wilkerson Fuel does not feel that it should bear the responsibility of submitting the requested assessment plan for an alleged leak that occurred in or about 1975.

Very truly yours,



John P. Gettys

JPG/tc

**RECEIVED**

OCT 09 1990

GROUND-WATER  
PROTECTION DIVISION

# FEDERATED INSURANCE

PO BOX 31716

TAMPA FL 33631-3716

Ph: (813)287-0155

TOLL FREE (800)282-9158 FL/(800)237-8292 SE STATES

September 24, 1990

ATTN: SAM BRATTON  
WILKERSON FUEL COMPANY INC  
PO BOX 2835  
ROCK HILL SC 29731

CERTIFIED MAIL/RETURN RECEIPT REQUESTED

LOSS LOCATION: 378 Truck Stop, Saluda, SC  
CLAIM NUMBER: 63Z-850  
OUR INSURED: P & O Oil Company, Inc.

We have received additional information relating to coverage for the above-listed claim. From 11/1/74 to 11/1/75 P & O Oil Company, Inc. carried a Special Multi - Peril (SMP) policy with Federated Mutual. Liability coverage in this policy is contained on Form MLB-200 (1/73), which states:

"I. COVERAGE C -- BODILY INJURY AND  
PROPERTY DAMAGE LIABILITY:

The Company will pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages because of bodily injury or property damage to which this insurance applies, caused by an occurrence and arising out of the ownership, maintenance or use of the insured premises and all operations necessary or incidental to the business of the named insured conducted at or from the insured premises and the Company shall have the right and duty to defend any suit against the insured seeking damages on account of such bodily injury or property damage, even if any of the allegations of the suit are groundless, false or fraudulent, and may make such investigation and settlement of any claim or suit as it deems expedient, but the Company shall not be obligated to pay any claim or judgment or to defend any suit after the applicable limit of the Company's liability has been exhausted by payment of judgments or settlements."

This is further reiterated in Form MLB-202 (1/73), which states:

"I. COVERAGE -- BODILY INJURY AND PROPERTY DAMAGE LIABILITY

The Company will pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages because of

RECEIVED

OCT 09 1990

GROUND-WATER

PROTECTION

RLs occurred before  
this policy was put  
into effect. (JA

# FEDERATED INSURANCE

September 24, 1990

Claim No: 63X-850

Insured: P & O Oil Company, Inc.

Page 2

bodily injury or property damage to which this insurance applies, caused by an occurrence, and the Company shall have the right and duty to defend any suit against the insured seeking damages on account of such bodily injury or property damage, even if any of the allegations of the suit are groundless, false or fraudulent, and may make such investigation and settlement of any claim or suit as it deems expedient, but the Company shall not be obligated to pay any claim or judgment or to defend any suit after the applicable limit of the Company's liability has been exhausted by payment of judgments or settlements."

As noted above, this coverage form covers "bodily injury" and "property damage". Recent South Carolina court decisions have held that government mandated clean up (i.e. DHEC directives) is not considered "property damage" under the terms of a liability policy.

As noted in the Form MLB-200 (1/73) and Form MLB-202 (1/73), coverage applies only to "bodily injury" or "property damage", caused by an "occurrence". These terms are defined on Form OKP175(40)-X-D (Rev. 1/73), as follows:

"'bodily injury' means bodily injury, sickness or disease sustained by any person which occurs during the policy period, including death at any time resulting therefrom;

'occurrence' means an accident, including continuous or repeated exposure to conditions, which results in bodily injury or property damage neither expected nor intended from the standpoint of the insured;

'property damage' means (1) physical injury to or destruction of tangible property which occurs during the policy period, including the loss of use thereof at any time resulting therefrom, or (2) loss of use of tangible property which has not been physically injured or destroyed provided such loss of use is caused by an occurrence during the policy period."

Additionally, coverage is further defined in the exclusions section of the policy, as below:

## "Exclusions

This insurance does not apply

- (f) to bodily injury or property damage arising out of the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids,

# FEDERATED INSURANCE

September 24, 1990

Claim No: 63X-850

Insured: P & O Oil Company, Inc.

Page 3

alkalis, toxic chemicals, liquids or gases, waste materials or other irritants, contaminants or pollutants into or upon land, the atmosphere or any water course or body of water; but this exclusion does not apply if such discharge, dispersal, release or escape is sudden and accidental;"

The policy agrees to pay for "bodily injury" or "property damage" caused by an "occurrence". In this particular situation, we have no indications that there was an "occurrence" during the policy period. Further, neither "bodily injury" or "property damage" has arisen as a result of any such "occurrence". For these reasons, Federated Mutual is unable to provide any coverage for the cost to remediate this site or provide any defense for actions arising from this matter.

The investigation of this matter by Federated Mutual shall not be construed as an admission of liability or as a waiver of any coverage defense or limitation that is available to it according to the provision of its insurance policy or that is available to it by operation of law. In addition to the policy or defense discussed, other defenses may be available to Federated Mutual by operation of law. Federated Mutual reserves any legal and policy defenses it may have in connection with this matter, whether stated or not in this letter. Further, Federated Mutual reserves its right to modify its coverage position at any time upon receipt of additional information.

If you have any questions after reviewing this letter, please feel free to contact us.



Barbara B. Munkel  
Claims Supervisor  
las

Commissioner: Michael D. Jarrett

Board: John B. Pate, MD, Chairman  
William E. Applegate, III, Vice Chairman  
John H. Burriss, Secretary

Promoting Health, Protecting the Environment

File  
Toney Graham, Jr., MD  
Richard E. Jabbour, DDS  
Henry S. Jordan, MD  
Currie B. Spivey, Jr.

November 14, 1990

Mr. Sam Bratton  
Wilkerson Fuel Company, Inc.  
P.O. Box 2835  
Rock Hill, SC 29731

Re: Scurry/Anderson Well contamination (PCAS 6786)  
Report of Well Contamination  
Edgefield County

Mr. Bratton:

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed our file which included the analytical results of the ground-water samples collected April 13, 1977 and the original report of a contaminated private well.

Based on the documentation available (copy enclosed), this office considers Wilkerson Fuel Company, Inc. to be the tank owners and as such are responsible for taking corrective action as per SC UST Regulations (280.65 (4)). Previous correspondence from this office requested an assessment plan from you. SCDHEC anticipated the assessment report for the above referenced site on October 30, 1990. To date, no plan has been received. Furthermore, correspondence of October 5, 1990 from J.P. Gettys indicates your unwillingness to assume responsibility.

This office is preparing to initiate a corrective action utilizing Federal Trust funds while determining who is financially responsible for clean-up. This action is being taken because:

1. There is a necessity to protect human health and to protect the environment; and,
2. A) A responsible party (RP) has not been identified; or,  
B) the known RP has failed or refused to comply with the requirements from this office; or,  
C) the RP does not have the financial means to cover associated costs.

UST Docket 1227

Mr. Bratton  
November 14, 1990  
Page 2

Federal Trust fund regulations require cost recovery of all funds expended by this office from the RP, once identified.

On all correspondence concerning this site, please reference PCAS 6786. If you have any questions regarding the above, please call me at (803) 734-4665.

Sincerely,



Paul M. Bergstrand, Hydrogeologist  
Ground Water Protection Division  
Bureau of Drinking Water Protection

PMB/pmb  
6786-4

cc: Billy Dupree, Upper Savannah District EQC  
Reggie Massey, Upper Savannah District EQC  
Paul Bristol, Central Midlands District EQC  
Jeannette Campbell, Compliance & Enforcement, BDWP  
John Gettys, 514 Oakland Avenue  
Rock Hill, SC 29730  
Mildred Griffith, P&O Oil Company  
401 Greenwood Highway  
Saluda, SC 29138

MEMORANDUM

TO: File

FROM: Cynde Devlin, Hydrogeologist <sup>CD</sup>

RE: Site Visit to Scurry Well Contamination, Edgefield County  
On Highway 378, 5 miles east of S.C. 25

DATE: July 25, 1991

The writer and Paul Bristol (Central Midlands EQC) visited the above referenced site in response to complaints of contaminated drinking water. Directly across the street from Mrs. Hattie Scurry is a restaurant/gasoline station owned by Mr. Jolly Owdom. Mrs. Scurry told us that there used to be a pit at the station where they dumped waste oil but it had been covered over. Inspection of this area did not show obvious contamination on the surface. An area further east of the pit did show waste oil contamination on the ground. Directly behind the building is an old 4 inch well. Inspection of this well indicated that the well was no longer in use and appeared to be filled in to approximately 20 feet below surface. Adjacent to the well was a 10 foot section of PVC pipe which had a spigot on one end and the other end disappeared into the ground. Clear water with no odor came out when turned on, however, water pressure was low and the flow of water stopped after about 10 minutes. The source of the water could not be located. The direction in which the pipe ran was underground into the woods behind the building.

Mrs. Scurry said that the station had shut down approximately a year ago. It appeared to the writer and Mr. Bristol that the station was being prepared to reopen due repairs being made to the building and new walkway that had just been poured on the front of the building.

The writer and Mr. Bristol also spoke to Mr. Carl Coates who lives behind Mrs. Scurry. Mr. Coates said he had no problem with his water. He had a new well drilled a couple of years ago which is approximately 200 feet deep. Inspection of his old well showed that the well had been filled with garbage to within approximately 5 feet of the surface. Mr. Coates indicated that the old well was also approximately 200 feet deep. Mr. Carl Coates said that the his sister had contamination in her well but her house had since burned down and she had moved away. His brother, Mr. George Coates, now lives there and has drilled a new well. Mr. George Coates pointed out the old well to us which is surrounded by a cement pad and covered by an old pot top. Inspection of the well could not determine the depth or contents.

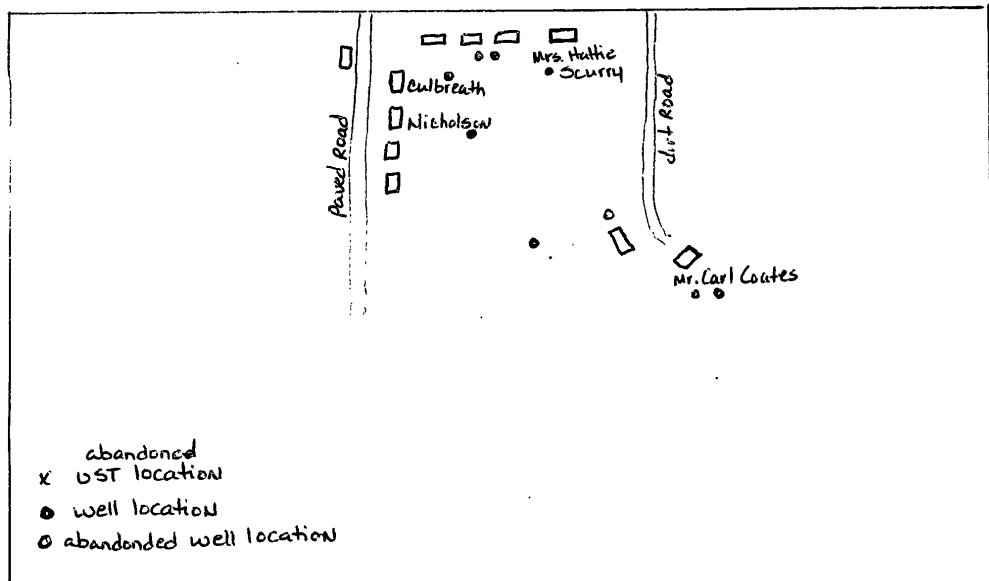
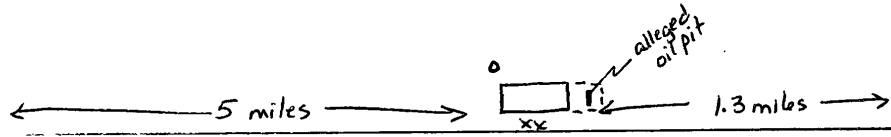
UST Docket 123T



S.C. 25

S.C. 430

← 2 →



NOT TO SCALE

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 PHYSICAL AND CHEMICAL ANALYSIS OF DRINKING WATER

SAMPLE NUMBER: R640

(CENTRAL) \_\_\_\_\_

(REGIONAL) \_\_\_\_\_

COLLECTED BY: RE Massey

COUNTY: Edgefield

NAME OF WATER SUPPLY: W.F. Scurry

SAMPLE POINT: well

ANALYSIS REQUESTED

- 1. PUBLIC COMPLETE  
 MONITORING  
 INVESTIGATION
- 2.  PRIVATE ROUTINE
- 3. SPECIAL: (SPECIFY)  
 MONITORING  
 INVESTIGATION

hydrocarbons

SAMPLE TYPE (MSIS ONLY) (1)  
 (D-DISTRIBUTION, C-CHECK,  
 S-NON-ROUTINE)

MILIT. TIME \_\_\_\_\_ (2-5)

LOCATION CODE \_\_\_\_\_ (6-8)

STATION NO. \_\_\_\_\_ (10-15)

DATE 01/21/84 (16-21)

|                |          |       |        |                           |           |       |      |
|----------------|----------|-------|--------|---------------------------|-----------|-------|------|
| 1. TDS         | (22-25)  | _____ | mg/l   | 21. Copper                | (102-105) | _____ | mg/l |
| 2. Turbidity   | (26-30)  | _____ | N.T.U. | 22. Iron                  | (106-109) | _____ | mg/l |
| 3. Color       | (31-33)  | _____ | C.U.   | 23. Lead                  | (110-114) | _____ | mg/l |
| 4. Odor        | (34-36)  | _____ | T.O.N. | 24. Manganese             | (115-119) | _____ | mg/l |
| 5. pH          | (37-39)  | _____ |        | 25. Mercury               | (1-6)     | _____ | mg/l |
| 6. Alkalinity  | (40-42)  | _____ | mg/l   | 26. Selenium              | (7-11)    | _____ | mg/l |
| 7. Fluoride    | (43-46)  | _____ | mg/l   | 27. Silver                | (12-16)   | _____ | mg/l |
| 8. Chloride    | (47-50)  | _____ | mg/l   | 28. Zinc                  | (17-20)   | _____ | mg/l |
| 9. Nitrate (N) | (51-55)  | _____ | mg/l   | 29. Endrin                | (21-26)   | _____ | mg/l |
| 10. MBAS       | (56-59)  | _____ | mg/l   | 30. Lindane               | (27-31)   | _____ | mg/l |
| 11. Sulfate    | (60-62)  | _____ | mg/l   | 31. Methoxychlor          | (32-34)   | _____ | mg/l |
| 12. Hardness   | (63-65)  | _____ | mg/l   | 32. Toxaphene             | (35-39)   | _____ | mg/l |
| 13. Calcium    | (66-69)  | _____ | mg/l   | 33. 2,4-D                 | (40-42)   | _____ | mg/l |
| 14. Magnesium  | (70-73)  | _____ | mg/l   | 34. 2,4,5-TP              | (43-46)   | _____ | mg/l |
| 15. Sodium     | (74-77)  | _____ | mg/l   | 35. TOC                   | (47-51)   | _____ | mg/l |
| 16. Potassium  | (78-81)  | _____ | mg/l   | 36. Chloroform            | (52-55)   | _____ | mg/l |
| 17. Arsenic    | (82-86)  | _____ | mg/l   | 37. Bromodichloromethane  | (56-59)   | _____ | mg/l |
| 18. Barium     | (87-90)  | _____ | mg/l   | 38. Dibromochloromethane  | (60-63)   | _____ | mg/l |
| 19. Cadmium    | (91-96)  | _____ | mg/l   | 39. Bromoform             | (64-67)   | _____ | mg/l |
| 20. Chromium   | (97-101) | _____ | mg/l   | 40. Total Trihalomethanes | (68-71)   | _____ | mg/l |

COMMENTS:

Volatiles organics - None detected

RECEIVED:

(REGIONAL) \_\_\_\_\_ BY \_\_\_\_\_

(CENTRAL) 11/3/84 BY cw

RELEASED:

(REGIONAL) \_\_\_\_\_ BY \_\_\_\_\_

(ORGANIC) 2/10/84 BY aoa

(METALS) BY \_\_\_\_\_

(AUTO. A. & SPEC) BY \_\_\_\_\_

ANALYSIS RELEASED DATE 02/01/84 (117-122)

UST Docket 124 Tech

**SCANNED**

Doc. Date: 3/4/1992

Doc. # 125 Tech

From: GCDHEC to file

Description:

Analytical Results

From:

2/10/1984

TO

3/4/1992

CHEMICAL ANALYSES OF PRIVATE DRINKING WATER SUPPLY

Date Collected 01/12/84 Time Collected 1:30

Collected By R. E. Massey

PERSON REQUESTING SAMPLE:

Name W. B. Scurry

Address Rt 3, Hwy 378

City Edgefield State S. Carolina Zip 29824

County Edgefield Telephone NONE

COMMENTS

hydrocarbon scan -  
Samples from well previously  
reported presence of petroleum

LOCATION AND WELL INFORMATION

(distance and direction from nearest city and intersection with road numbers): As the well location and construction greatly affect the quality of ground water, this information is essential for an accurate evaluation of your test results.

Hwy 378 - Approx.  
5 miles east of  
U.S. 25

Age ? (years) Depth ? (feet) Diameter 6 (inches)

Water level 25 (feet) Casing depth ? (feet)

Yield ? (gallons per minute) Driller ?

No. of persons using well: \_\_\_\_\_

TYPE OF EXAMINATION REQUESTED

- Private Routine: requires a clean quart glass or plastic container.
- Special Request: Please specify request in the comments section and indicate complaint or problem associated with the request. Submit sample in a one quart glass container with aluminum foil lined cap. **MUST BE REFRIGERATED.**
- Fluoride: requires an 8-ounce plastic container.

TO COLLECT THE SAMPLE

1. Thoroughly rinse container.
2. Fill container and tighten cap.
3. List name, date, and time of collection on container.
4. Sample must be received within 3 days after collection.
5. Mail sample to: EQC Water Laboratory  
 P.O. Box 2202  
 Columbia, S.C. 29202

DO NOT WRITE IN THIS SPACE

The results listed below either exceed the recommended limits or may cause certain problems. Please refer to the enclosed sheets for further information:

| TEST         | RECOMMENDED LIMITS |
|--------------|--------------------|
| Total Solids | 500 mg/l.          |
| Alkalinity   | >30 mg/l.          |
| pH           | 6.5-8.5            |
| Chloride     | 250 mg/l.          |
| Hardness     | 50-150 mg/l.       |
| Copper       | 1.0 mg/l.          |
| Iron         | 0.3 mg/l.          |
| Manganese    | 0.05 mg/l.         |
| Zinc         | 5.0 mg/l.          |
| Fluoride     | 1.6 mg/l.          |

<: less than >: greater than

mg/l.: milligrams per liter

Reviewed by [Signature]

CHEMICAL ANALYSES OF PRIVATE DRINKING WATER SUPPLY

Date Collected 01/12/84 Time Collected 1:30

Collected By Mo Day Yr. R. E. Massey

PERSON REQUESTING SAMPLE:

Name W. B. Scurry

Address Rt 3, Hwy 378

City Edgefield State S. Carolina Zip 29824

County Edgefield Telephone NONE

LOCATION AND WELL INFORMATION

(distance and direction from nearest city and intersection with road numbers): As the well location and construction greatly affect the quality of ground water, this information is essential for an accurate evaluation of your test results.

Hwy 378 - Approx.  
5 miles east of  
U.S. 25

COMMENTS

hydrocarbon scan -  
Samples from well previously  
reported presence of petroleum

Age ? (years) Depth ? (feet) Diameter 6 (inches)

Water level 25 (feet) Casing depth ? (feet)

Yield ? (gallons per minute) Driller ?

No. of persons using well: \_\_\_\_\_

TYPE OF EXAMINATION REQUESTED

TO COLLECT THE SAMPLE

- Private Routine: requires a clean quart glass or plastic container.
- Special Request: Please specify request in the comments section and indicate complaint or problem associated with the request. Submit sample in a one quart glass container with aluminum foil lined cap. **MUST BE REFRIGERATED.**
- Fluoride: requires an 8-ounce plastic container.

1. Thoroughly rinse container.
2. Fill container and tighten cap.
3. List name, date, and time of collection on container.
4. Sample must be received within 3 days after collection.
5. Mail sample to: EOC Water Laboratory  
 P.O. Box 2202  
 Columbia, S.C. 29202

DO NOT WRITE IN THIS SPACE

The results listed below either exceed the recommended limits or may cause certain problems. Please refer to the enclosed sheets for further information:

| TEST         | RECOMMENDED LIMITS |
|--------------|--------------------|
| Total Solids | 500 mg/l.          |
| Alkalinity   | >30 mg/l.          |
| pH           | 6.5-8.5            |
| Chloride     | 250 mg/l.          |
| Hardness     | 50-150 mg/l.       |
| Copper       | 1.0 mg/l.          |
| Iron         | 0.3 mg/l.          |
| Manganese    | 0.05 mg/l.         |
| Zinc         | 5.0 mg/l.          |
| Fluoride     | 1.6 mg/l.          |

Reviewed by [Signature]

<: less than >: greater than  
 mg/l.: milligrams per liter

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
DIVISION OF WATER SUPPLY  
CHEMICAL ANALYSES OF PRIVATE DRINKING WATER SUPPLY

Date Collected 7-19-77 Time Collected 1:45  
Mo Day Yr.  
Collected By \_\_\_\_\_  
PERSON REQUESTING SAMPLE:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
County \_\_\_\_\_ Telephone \_\_\_\_\_

COMMENTS  
\_\_\_\_\_

LOCATION AND WELL INFORMATION  
Distance and direction from nearest city and intersection with road  
(number): As the well location and construction greatly affect the quality  
of ground water, this information is essential for an accurate evaluation  
of your test results.  
4 mi East  
of the intersection of  
US 25 and 125 978  
Age 1 (years) Depth 275 (feet) Diameter 4 (inches)  
Water level 30 (feet) Casing depth \_\_\_\_\_ (feet)  
Yield \_\_\_\_\_ (gallons per minute) Driller \_\_\_\_\_  
No. of persons using well: 4

- TYPE OF EXAMINATION REQUESTED
- ( ) Private Routine: requires a clean quart glass or plastic container.
  - ( ) Organic (gasoline, pesticide, etc.): requires a one-quart glass container with an foil lined cap. MUST BE REFRIGERATED.
  - ( ) Fluoride: requires an 8-ounce plastic container.
  - ( ) Other (please specify request): contact county health department for necessary information.

- TO COLLECT THE SAMPLE
1. Thoroughly rinse container.
  2. Fill container and tighten cap.
  3. List name, date, and time of collection on container.
  4. Sample must be received within 5 days after collection.
  5. Mail sample to: EQC Water Laboratory  
SCDHEC, 2800 Bull Street  
Columbia, S. C. 29201

Do Not Write In This Space

The results listed below either exceed the recommended limits or may cause certain problems. Please refer to the enclosed sheets for further information:

Reviewed by [Signature]

Log Number 7-19-77 Laboratory Sample No. R 7017

| Test   | Results            | Recommended Limits |
|--|--------------------|--------------------|
| Total Solids   | <u>500</u> ppm     | 500 ppm            |
| Alkalinity   | <u>103</u> ppm     | > 30 ppm           |
| pH   | <u>6.5</u>         | 6.5-8.5            |
| Chloride   | <u>70</u> ppm      | 250 ppm            |
| Hardness   | <u>73</u> ppm      | 50-150 ppm         |
| Copper   | <u>50.1</u> ppm    | 1.0 ppm            |
| Iron   | <u>10.1</u> ppm    | 0.3 ppm            |
| Manganese  | <u>0.17</u> ppm    | 0.05 ppm           |
| Zinc   | <u>10.1</u> ppm    | 5.0 ppm            |
| Fluoride Analysis                                      |                    |                    |
| Fluoride   | _____ ppm          | 1.5 ppm            |
| Organic or other Analysis                              |                    |                    |
| <u>Traces of Benzene</u>                               |                    |                    |
| <u>(5.10 ppm Benzene)</u>                              |                    |                    |
| (< less than > : greater than ppm : parts per million) |                    |                    |
| Date Reported  | <u>4-9-77</u>      |                    |
| Released by  | <u>[Signature]</u> |                    |

**SHEAL ENVIRONMENTAL SERVICE, INC.**  
 BIOLOGISTS, TOXICOLOGISTS & CHEMISTS

*Fax Copy Received Sep 3, 91*

400 GRAYMONT AVENUE  
 COLUMBIA, SOUTH CAROLINA 29205  
 (803) 254-9915

SC DHEC CERTIFICATION NO. 26103  
 NC DEM NO. 001  
 Fax (803) 254-9107

CERTIFICATE OF ANALYSIS

Client: SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 2600 Bull Street  
 Columbia, SC 29201

SEP 04 1991

Attention: C. Devlin

Laboratory I.D. Sample Description - GWPD TRUST SECT

91-6314 Mrs. Scurry; Collected 07/31/91 at 1035  
 91-6315 Mr. Coley; Collected 07/31/91 at 1347  
 91-6316 Mr. Webb; Collected 07/31/91 at 1345  
 91-6317 Roadside Scurry; Collected 07/31/91 at 1615  
 91-6318 Mr. G. Coates; Collected 07/31/91 at 1025  
 91-6319 Mrs. Culbreath; Collected 07/31/91 at 1100  
 91-6320 Mrs. Gordon; Collected 07/31/91 at 1045  
 91-6321 Mrs. Nicholson; Collected 07/31/91 at 1150  
 91-6322 Mr. Coates; Collected 07/31/91 at 1103

Date Received: 08/01/91 QA/QC Officer: RED  
 Date Reported: 08/26/91

| Parameter                 | Units | RESULTS                  |         |         |                            |         |
|---------------------------|-------|--------------------------|---------|---------|----------------------------|---------|
|                           |       | <i>Scurry</i><br>91-6314 | 91-6315 | 91-6316 | <i>Roadside</i><br>91-6317 | 91-6318 |
| Lead                      | mg/l  | <0.011                   | 0.011   | <0.011  | 0.415                      | <0.011  |
| VOLATILES METHOD 601/602  |       |                          |         |         |                            |         |
| Benzene                   | ug/l  | <5.0                     | <5.0    | <5.0    | 11.3                       | <5.0    |
| Bromodichloromethane      |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Bromoform                 |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Bromomethane              |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Carbon tetrachloride      |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Chlorobenzene             |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Chloroethane              |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 2-Chloroethylvinyl ether  |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Chloroform                |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Chloromethane             |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Dibromochloromethane      |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,2-Dichlorobenzene       |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,3-Dichlorobenzene       |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,4-Dichlorobenzene       |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Dichlorodifluoromethane   |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,1-Dichloroethane        |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,2-Dichloroethane        |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,1-Dichloroethene        |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| trans-1,2-Dichloroethene  |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,2-Dichloropropane       |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| cis-1,3-Dichloropropene   |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| trans-1,3-Dichloropropene |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Ethyl benzene             |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Methylene chloride        |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,1,2,2-Tetrachloroethane |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Tetrachloroethene         |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Toluene                   |       | <5.0                     | <5.0    | <5.0    | 5.4                        | <5.0    |
| 1,1,1-Trichloroethane     |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| 1,1,2-Trichloroethane     |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Trichloroethene           |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Trichlorofluoromethane    |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Vinyl chloride            |       | <5.0                     | <5.0    | <5.0    | <5.0                       | <5.0    |
| Total Xylenes             |       | <12                      | <12     | <12     | <12                        | <12     |

Continued on Page 2

Client:

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL

Date Received:

08/01/91

Date Reported:

08/26/91

## RESULTS

| Parameter               | Units | 91-6314 | 91-6315 | 91-6316 | 91-6317 | 91-6318 |
|-------------------------|-------|---------|---------|---------|---------|---------|
| PAH                     | ug/l  |         |         |         |         |         |
| Naphthalene             |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Acenaphthylene          |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Acenaphthene            |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Fluorene                |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Phenanthrene            |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Anthracene              |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Fluoranthene            |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Pyrene                  |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Benzo(a)anthracene      |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Chrysene                |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Benzo(b+k)fluoranthene  |       | <20.0   | <20.0   | <20.0   | <20.0   | <20.0   |
| Benzo(a)pyrene          |       | <20.0   | <20.0   | <20.0   | <20.0   | <20.0   |
| Indeno(1,2,3-c,d)pyrene |       | <20.0   | <20.0   | <20.0   | <20.0   | <20.0   |
| Dibenzo(a,h)anthracene  |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Benzo(g,h,i)perylene    |       | <20.0   | <20.0   | <20.0   | <20.0   | <20.0   |

Continued on Page 3



Client:

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL

Date Received:

08/01/91

Date Reported:

08/26/91

## RESULTS

| Parameter                 | Units | 91-6219 | 91-6320 | 91-6321 | 91-6322 |
|---------------------------|-------|---------|---------|---------|---------|
| Lead                      | mg/l  | <0.011  | <0.011  | <0.011  | <0.011  |
| VOLATILES METHOD 601/602  |       |         |         |         |         |
| Benzene                   | ug/l  | <5.0    | <5.0    | <5.0    | <5.0    |
| Bromodichloromethane      |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Bromoform                 |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Bromomethane              |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Carbon tetrachloride      |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Chlorobenzene             |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Chloroethane              |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 2-Chloroethylvinyl ether  |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Chloroform                |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Chloromethane             |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Dibromochloromethane      |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,2-Dichlorobenzene       |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,3-Dichlorobenzene       |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,4-Dichlorobenzene       |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Dichlorodifluoromethane   |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,1-Dichloroethane        |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,2-Dichloroethane        |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,1-Dichloroethene        |       | <5.0    | <5.0    | <5.0    | <5.0    |
| trans-1,2-Dichloroethene  |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,2-Dichloropropane       |       | <5.0    | <5.0    | <5.0    | <5.0    |
| cis-1,3-Dichloropropene   |       | <5.0    | <5.0    | <5.0    | <5.0    |
| trans-1,3-Dichloropropene |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Ethyl benzene             |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Methylene chloride        |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,1,2,2-Tetrachloroethane |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Tetrachloroethene         |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Toluene                   |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,1,1-Trichloroethane     |       | <5.0    | <5.0    | <5.0    | <5.0    |
| 1,1,2-Trichloroethane     |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Trichloroethene           |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Trichlorofluoromethane    |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Vinyl chloride            |       | <5.0    | <5.0    | <5.0    | <5.0    |
| Total Xylenes             |       | <12     | <12     | <12     | <12     |

Continued on Page 4

Client:

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL

Date Received:

08/01/91

Date Reported:

08/26/91

## RESULTS

| Parameter                | Units | 91-6319 | 91-6320 | 91-6321 | 91-6322 |
|--------------------------|-------|---------|---------|---------|---------|
| PAH                      | ug/l  |         |         |         |         |
| Napthalene               |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Acenaphthylene           |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Acenaphthene             |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Fluorene                 |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Phenanthrene             |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Anthracene               |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Fluoranthene             |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Pyrene                   |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Benzo(a) anthracene      |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Chrysene                 |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Benzo(b+k) fluoranthene  |       | <20.0   | <20.0   | <20.0   | <20.0   |
| Benzo(a) pyrene          |       | <20.0   | <20.0   | <20.0   | <20.0   |
| Indeno(1,2,3-c,d) pyrene |       | <20.0   | <20.0   | <20.0   | <20.0   |
| Dibenzo(a,h) anthracene  |       | <10.0   | <10.0   | <10.0   | <10.0   |
| Benzo(g,h,i) perylene    |       | <20.0   | <20.0   | <20.0   | <20.0   |

Continued on Page 5

Client:

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL

Date Received:

08/01/91

Date Reported:

08/26/91

| Parameter                 | Units | Analyst | RESULTS       |
|---------------------------|-------|---------|---------------|
|                           |       |         | Date Analyzed |
| Lead                      | mg/l  | VTB     | 08/08/91      |
| VOLATILES METHOD 601/602  | ug/l  | WAM     | 08/03/91      |
| Benzene                   |       |         |               |
| Bromodichloromethane      |       |         |               |
| Bromoform                 |       |         |               |
| Bromomethane              |       |         |               |
| Carbon tetrachloride      |       |         |               |
| Chlorobenzene             |       |         |               |
| Chloroethane              |       |         |               |
| 2-Chloroethylvinyl ether  |       |         |               |
| Chloroform                |       |         |               |
| Chloromethane             |       |         |               |
| Dibromochloromethane      |       |         |               |
| 1,2-Dichlorobenzene       |       |         |               |
| 1,3-Dichlorobenzene       |       |         |               |
| 1,4-Dichlorobenzene       |       |         |               |
| Dichlorodifluoromethane   |       |         |               |
| 1,1-Dichloroethane        |       |         |               |
| 1,2-Dichloroethane        |       |         |               |
| 1,1-Dichloroethene        |       |         |               |
| trans-1,2-Dichloroethene  |       |         |               |
| 1,2-Dichloropropane       |       |         |               |
| cis-1,3-Dichloropropene   |       |         |               |
| trans-1,3-Dichloropropene |       |         |               |
| Ethyl benzene             |       |         |               |
| Methylene chloride        |       |         |               |
| 1,1,2,2-Tetrachloroethane |       |         |               |
| Tetrachloroethene         |       |         |               |
| Toluene                   |       |         |               |
| 1,1,1-Trichloroethane     |       |         |               |
| 1,1,2-Trichloroethane     |       |         |               |
| Trichloroethene           |       |         |               |
| Trichlorofluoromethane    |       |         |               |
| Vinyl chloride            |       |         |               |
| Total Xylenes             |       |         |               |

Continued on Page 6

Client:

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL

Date Received:

08/01/91

Date Reported:

08/26/91

| Parameter                | Units | RESULTS |               |
|--------------------------|-------|---------|---------------|
|                          |       | Analyst | Date Analyzed |
| PAH                      | ug/l  | RDD/JGC | 08/13/91      |
| Naphthalene              |       |         |               |
| Acenaphthylene           |       |         |               |
| Acenaphthene             |       |         |               |
| Fluorene                 |       |         |               |
| Phenanthrene             |       |         |               |
| Anthracene               |       |         |               |
| Fluoranthene             |       |         |               |
| Pyrene                   |       |         |               |
| Benzo(a) anthracene      |       |         |               |
| Chrysene                 |       |         |               |
| Benzo(b+k) fluoranthene  |       |         |               |
| Benzo(a) pyrene          |       |         |               |
| Indeno(1,2,3-c,d) pyrene |       |         |               |
| Dibenzo(a,h) anthracene  |       |         |               |
| Benzo(g,h,i) perylene    |       |         |               |

Reported By:

*RDD for MAW*Michael A. Woodrum, Laboratory Director

MAW/maw

USE BALL POINT PEN ONLY, PRESS HARD

**SHEALY ENVIRONMENTAL SERVICES, INC.**

Page    of   

400 Graymont Avenue  
Columbia, South Carolina 29205

Telephone No. (803) 254-9915 Fax No. (803) 254-9107

Client Name SCDHEC (TRUST SECT) <sup>GWPD</sup>

Address 2600 Bull Street  
Cola SC

**CHAIN OF CUSTODY RECORD**

*SP/210*

**SAMPLE ANALYSIS REQUIRED**

Attention C. Dewlin  
Telephone No. 935-6301 P.O. No.           

← PRESERVATION (CODE)

CODE: A = None  
B = HNO3  
C = H2SO4  
D = NaOH  
E =           

LAB  
USE  
ONLY

REMARKS

SESI  
LAB I.D.

| Sample ID (Location) | Yr. DATE | TIME  | WELL | SOLID | COMP | GRAB | # of containers | pH, Conductivity | BOD | Nitrate - Specify | METALS - Specify | TOC/TOK - Specify | BTEX | VOC - Specify Method required | Pesticides/PCBs - Specify | Herbicides | Total Phosph | Oil & Grease | BVA | Solids - Specify | Cyanide | Chlorine - Specify Type | Toxicity - Specify |  |  |         |         |
|----------------------|----------|-------|------|-------|------|------|-----------------|------------------|-----|-------------------|------------------|-------------------|------|-------------------------------|---------------------------|------------|--------------|--------------|-----|------------------|---------|-------------------------|--------------------|--|--|---------|---------|
| Mrs. Scurry          | 7-31     | 10:35 | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  | 601/602, lead<br>625 (PAH fraction only) | 01-6314 |         |
| Mr. Coley            | 7-31     | 1:47  | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6315 |
| Mr. Webb             | 7-31     | 1:45  | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6316 |
| Roadside Scurry      | 7-31     | 4:15  | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  | 601/602, lead<br>625 (PAH fraction only) | 01-6317 |         |
| Mr. G. Coates        | 7-31     | 10:25 | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6318 |
| Mrs. Culbreath       | 7-31     | 11:00 | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6319 |
| Mrs. Gordon          | 7-31     | 10:45 | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6320 |
| Mrs. Nicholson       | 7-31     | 11:50 | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6321 |
| Mr. Coates           | 7-31     | 11:03 | ✓    |       |      |      | 4               |                  |     |                   | X                | X                 | X    |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         | 01-6322 |
| Total                |          |       |      |       |      |      | 36              |                  |     |                   |                  |                   |      |                               |                           |            |              |              |     |                  |         |                         |                    |  |  |         |         |

|                                |           |                       |                                |   |
|--------------------------------|-----------|-----------------------|--------------------------------|---|
| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.)    | Hazards Associated with Sample | Receipt TRC _____ mg/l                      |
| Relinquished by (Sig.)         | Date/Time | Received by (Sig.)    |                                | Receipt pH _____ su                         |
| Relinquished by (Sig.)         | Date/Time | Lab Receipt by (Sig.) |                                | Receipt Temp. _____ °C                      |
|                                |           |                       |                                | Custody Seal Intact (circle)<br>YES NO NONE |

# SHEARSON ENVIRONMENTAL SERVICES, INC.

BIOLOGISTS, TOXICOLOGISTS & CHEMISTS

400 GRAYMONT AVENUE  
COLUMBIA, SOUTH CAROLINA 29205  
(803) 254-9915

SC DHEC CERTIFICATION NO. 26103  
NC DEM NO. 001  
Fax (803) 254-9107

## CERTIFICATE OF ANALYSIS

**Client:** SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL  
2600 Bull Street  
Columbia, SC 29201

**Attention:** Frank Johnson

**Laboratory I.D.** 91-8133      **Sample Description** Scurry; Collected 09/05/91 at 1000

**Date Received:** 09/05/91      **QA/QC Officer:** *JM31*  
**Date Reported:** 09/12/91

### RESULTS

| Parameter                  | Units       | 91-8133 | Analyst        | Date Analyzed   |
|----------------------------|-------------|---------|----------------|-----------------|
| Lead                       | mg/l        | <0.011  | VTB            | 09/12/91        |
| Benzene                    | ug/l        | <5.0    | WAM            | 09/07/91        |
| Toluene                    | ug/l        | <5.0    | WAM            | 09/07/91        |
| Ethyl benzene              | ug/l        | <5.0    | WAM            | 09/07/91        |
| Total Xylenes              | ug/l        | <12     | WAM            | 09/07/91        |
| <b>ACID EXTRACTABLES</b>   | <b>ug/l</b> |         | <b>RDD/JGC</b> | <b>09/11/91</b> |
| Phenol                     |             | <10.0   |                |                 |
| 2-Chlorophenol             |             | <10.0   |                |                 |
| 2-Nitrophenol              |             | <10.0   |                |                 |
| 2,4-Dimethylphenol         |             | <10.0   |                |                 |
| 2,4-Dichlorophenol         |             | <10.0   |                |                 |
| 4-Chloro-3-methylphenol    |             | <10.0   |                |                 |
| 2,4,6-Trichlorophenol      |             | <10.0   |                |                 |
| 2,4-Dinitrophenol          |             | <40.0   |                |                 |
| 4-Nitrophenol              |             | <40.0   |                |                 |
| 4,6-Dinitro-2-methylphenol |             | <40.0   |                |                 |
| Pentachlorophenol          |             | <40.0   |                |                 |

**RECEIVED**  
 SEP 13 1991  
 Environmental Protection

Continued on Page 2

Resample due to definite petroleum odor in water from well, however, Sep. 3 '91 result showed none detected.

**RECEIVED**  
 SEP 13 1991  
 Environmental Protection

Client:

SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL

Date Reported:

09/05/91

Page 2

Client:

09/12/91

RESULTS

| Parameter                    | Units | 91-8133 | Analyst | Date Analyzed |
|------------------------------|-------|---------|---------|---------------|
| BASE NEUTRAL EXTRACTABLES    | ug/l  |         | RDD/JGC | 09/11/91      |
| n-Nitrosodimethylamine       |       | <10.0   |         |               |
| bis(2-Chloroethyl) ether     |       | <10.0   |         |               |
| 1,4-Dichlorobenzene          |       | <10.0   |         |               |
| 1,3-Dichlorobenzene          |       | <10.0   |         |               |
| 1,2-Dichlorobenzene          |       | <10.0   |         |               |
| bis(2-Chloroisopropyl) ether |       | <10.0   |         |               |
| n-Nitrosodi-n-propylamine    |       | <10.0   |         |               |
| Hexachloroethane             |       | <20.0   |         |               |
| Nitrobenzene                 |       | <10.0   |         |               |
| Isophorone                   |       | <10.0   |         |               |
| bis(2-Chloroethoxy) methane  |       | <10.0   |         |               |
| 1,2,4-Trichlorobenzene       |       | <10.0   |         |               |
| Napthalene                   |       | <10.0   |         |               |
| Hexachlorobutadiene          |       | <20.0   |         |               |
| Hexachlorocyclopentadiene    |       | <20.0   |         |               |
| 2-Chloronapthalene           |       | <10.0   |         |               |
| Dimethylphthalate            |       | <10.0   |         |               |
| Acenaphthylene               |       | <10.0   |         |               |
| 2,6-Dinitrotoluene           |       | <10.0   |         |               |
| Acenaphthene                 |       | <10.0   |         |               |
| 2,4-Dinitrotoluene           |       | <10.0   |         |               |
| Diethylphthalate             |       | <20.0   |         |               |
| Fluorene                     |       | <10.0   |         |               |
| 4-Chlorophenylphenylether    |       | <10.0   |         |               |
| n-Nitrosodiphenylamine       |       | <10.0   |         |               |
| Azobenzene                   |       | <10.0   |         |               |
| 4-Bromphenylphenylether      |       | <20.0   |         |               |
| Hexachlorobenzene            |       | <20.0   |         |               |
| Phenanthrene                 |       | <10.0   |         |               |
| Anthracene                   |       | <10.0   |         |               |
| di-n-Butylphthalate          |       | <10.0   |         |               |
| Fluoranthene                 |       | <10.0   |         |               |
| Benzidine                    |       | <10.0   |         |               |
| Pyrene                       |       | <10.0   |         |               |
| Butylbenzylphthalate         |       | <20.0   |         |               |
| Benzo(a) anthracene          |       | <10.0   |         |               |
| 3,3'-Dichlorobenzidine       |       | <10.0   |         |               |
| Chrysene                     |       | <10.0   |         |               |
| bis(2-Ethylhexyl) phthalate  |       | <20.0   |         |               |
| Di-n-Octylphthalate          |       | <30.0   |         |               |
| Benzo(b+k) fluoranthene      |       | <20.0   |         |               |
| Benzo(a) pyrene              |       | <20.0   |         |               |
| Indeno(1,2,3-c,d) pyrene     |       | <20.0   |         |               |
| Dibenzo(a,h) anthracene      |       | <10.0   |         |               |
| Benzo(g,h,i) perylene        |       | <20.0   |         |               |

Reported By:

  
Michael A. Woodrum, Laboratory Director

MAW/maw

USE BALL POINT PEN ONLY, PRESS HARD

**SHEALY ENVIRONMENTAL SERVICES, INC.**

400 Graymont Avenue  
Columbia, South Carolina 29205  
Telephone No. (803) 254-9915 Fax No. (803) 254-9107

✓ Page \_\_\_\_ of \_\_\_\_

Client Name SCNHEC

Address 2600 Bull Street  
Cata SC

Attention Cyrus Deulin

Telephone No. 935-6301 P.O. No. \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

**SAMPLE ANALYSIS REQUIRED**

*SP/LIQ*

| Sample ID (Location) | Yr. DATE   | TIME         | WELL                                | SOLID | COMP | GMS | # of containers | pH, Conductivity | BOD | Nutrients - Specify | METALS - Specify / <i>20</i>        | TOC/TOD - Specify | BTX                                 | VOC - Specify Method / <i>20</i> | Pesticides / <i>20</i> | Herbicides | Total Phosph | Oil & Grease | BVA | Solids - Specify | Cyanide | Coliform - Specify type | Toxicity - Specify | ← PRESERVATION (CODE) |                           |                |
|----------------------|------------|--------------|-------------------------------------|-------|------|-----|-----------------|------------------|-----|---------------------|-------------------------------------|-------------------|-------------------------------------|----------------------------------|------------------------|------------|--------------|--------------|-----|------------------|---------|-------------------------|--------------------|-----------------------|---------------------------|----------------|
|                      |            |              |                                     |       |      |     |                 |                  |     |                     |                                     |                   |                                     |                                  |                        |            |              |              |     |                  |         |                         |                    | REMARKS               | LAB USE ONLY              |                |
| <i>Scurry</i>        | <i>9-5</i> | <i>10:00</i> | <input checked="" type="checkbox"/> |       |      |     | <i>5</i>        |                  |     |                     | <input checked="" type="checkbox"/> |                   | <input checked="" type="checkbox"/> |                                  |                        |            |              |              |     |                  |         |                         |                    |                       | <i>625 (PAH fraction)</i> | <i>91-8133</i> |
|                      |            |              |                                     |       |      |     |                 |                  |     |                     |                                     |                   |                                     |                                  |                        |            |              |              |     |                  |         |                         |                    |                       | <i>602 + vylene</i>       |                |

|   |                                       |   |                                |                        |
|---|---------------------------------------|---|--------------------------------|------------------------|
| SAMPLER<br>Relinquished by (Sig.)<br><i>[Signature]</i> | Date/Time<br><i>9-5-91 11:37</i>      | Received by (Sig.)<br><i>[Signature]</i>    | Hazards Associated with Sample | Receipt TRC _____ mg/l |
|   | Date/Time<br><i>12:30 RBH 9/15/91</i> | Received by (Sig.)<br><i>[Signature]</i>    |                                | Receipt pH _____ su    |
|   | Date/Time<br><i>10/1/91</i>           | Lab Receipt by (Sig.)<br><i>[Signature]</i> |                                | Receipt Temp. _____ °C |
| Custody Seal Intact (circle)<br>YES NO NONE             |                                       |   |                                |                        |



UST

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 Environmental Quality Control  
 Analytical Services Sample Request for Organic Compounds  
 in Solid Waste and Groundwater Protection Samples

Sample Location Scumy County Edgefield  
 Comments \_\_\_\_\_  
 Date 9-5-91 Collected By Clyde DeWine

**RECEIVED**  
 S.C. Dept. of Health and Environmental Control - Bureau of Hazardous Waste Management

Sample Type: 1. Water 2. Soil/Sediment 3. Hazardous Waste 4. Other \_\_\_\_\_

|                                |               |                                     |                    |
|--------------------------------|---------------|-------------------------------------|--------------------|
| Time Collected (Milit.)        | <u>10:00</u>  |                                     | <u>field blank</u> |
| Station No.                    |               |                                     |                    |
| Lab. No.                       | <u>090591</u> | <u>0070</u>                         | <u>0071</u>        |
| Pesticides/PCBs                |               |                                     |                    |
| Herbicides                     |               |                                     |                    |
| PCBs                           |               |                                     |                    |
| Base Neutral/Acid Extractables |               | <input checked="" type="checkbox"/> |                    |
| Volatile Organics              |               | <input checked="" type="checkbox"/> |                    |
| Petroleum Hydrocarbons         |               |                                     |                    |

**RECEIVED**  
 SEP 27 1991  
 GROUND-WATER PROTECTION DIVISION

Comments plus Xylene

Date Received in Regional Laboratory \_\_\_\_\_ by \_\_\_\_\_  
 Date Released from Regional Laboratory \_\_\_\_\_ by \_\_\_\_\_  
 Date Received in Central Laboratory 09-05-91 by KAC  
 Date Released from Central Laboratory 09-16-91 by TCR

*MB*

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0905910070  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURRY

MONDAY SEPTEMBER 16TH, 1991  
 RELEASE DATE : 09/16/91 13:28:34  
 DT COLLECTED : 09/05/91 10:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

|                                  | STORET | RESULT |
|----------------------------------|--------|--------|
| ACENAPHTHENE UG/L                | 34205  | <4.0   |
| ACENAPHTHYLENE UG/L              | 34200  | <4.0   |
| ANTHRACENE UG/L                  | 34220  | <4.0   |
| BENZO(A)ANTHRACENE UG/L          | 34526  | <4.0   |
| BENZO(B)FLUORANTHENE UG/L        | 34230  | <4.0   |
| BENZO(K)FLUORANTHENE UG/L        | 34242  | <4.0   |
| BENZO(A)PYRENE UG/L              | 34247  | <4.0   |
| BENZO(GHI)PERYLENE UG/L          | 34521  | <4.0   |
| BUTYLBENZYL PHTHALATE UG/L       | 34292  | <4.0   |
| BIS(2-CHLOROETHYL)ETHER UG/L     | 34273  | <4.0   |
| BIS(2-CHLOROETHOXY)METHANE UG/L  | 34278  | <4.0   |
| BIS(2-ETHYLHEXYL)PHTHALATE UG/L  | 39100  | <4.0   |
| BIS(2-CHLOROISOPROPYL)ETHER UG/L | 34283  | <4.0   |
| 4-BROMOPHENYL PHENYL ETHER UG/L  | 34636  | <4.0   |
| 2-CHLORONAPHTHALENE UG/L         | 34581  | <4.0   |
| 4-CHLOROPHENYL PHENYL ETHER UG/L | 34641  | <4.0   |
| CHRYSENE UG/L                    | 34320  | <4.0   |
| DIBENZO(A,H)ANTHRACENE UG/L      | 34556  | <4.0   |
| DI-N-BUTYLPHthalate UG/L         | 39110  | <4.0   |
| 1,3-DICHLOROBENZENE UG/L         | 34566  | <4.0   |
| 1,2-DICHLOROBENZENE UG/L         | 34536  | <4.0   |
| 1,4-DICHLOROBENZENE UG/L         | 34571  | <4.0   |
| 3,3'-DICHLOROBENZIDINE UG/L      | 34631  | <4.0   |
| DIETHYL PHTHALATE UG/L           | 34336  | <4.0   |
| DIMETHYL PHTHALATE UG/L          | 34341  | <4.0   |
| 2,4-DINITROTOLUENE UG/L          | 34611  | <4.0   |
| 2,6-DINITROTOLUENE UG/L          | 34626  | <4.0   |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0905910070  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURRY

MONDAY SEPTEMBER 16TH, 1991  
 RELEASE DATE : 09/16/91 13:28:34  
 DT COLLECTED : 09/05/91 10:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

PAGE 2

| ANALYSIS                        | STORET | RESULT |
|---------------------------------|--------|--------|
| DI-N-OCTYLPHTHALATE UG/L        | 34596  | <4.0   |
| FLUORANTHENE UG/L               | 34376  | <4.0   |
| FLUORENE UG/L                   | 34381  | <4.0   |
| HEXACHLOROBENZENE UG/L          | 39700  | <4.0   |
| HEXACHLOROBUTADIENE UG/L        | 34391  | <4.0   |
| HEXACHLOROETHANE UG/L           | 34396  | <4.0   |
| INDENO(1,2,3-CD)PYRENE UG/L     | 34403  | <4.0   |
| ISOPHORONE UG/L                 | 34408  | <4.0   |
| NAPHTHALENE UG/L                | 34696  | <4.0   |
| NITROBENZENE UG/L               | 34447  | <4.0   |
| N-NITROSODI-N-PROPYLAMINE UG/L  | 34428  | <4.0   |
| PHENANTHRENE UG/L               | 34461  | <4.0   |
| PYRENE UG/L                     | 34469  | <4.0   |
| 1,2,4-TRICHLOROBENZENE UG/L     | 34551  | <4.0   |
| 4-CHLORO-3-METHYL PHENOL UG/L   | 34452  | <4.0   |
| 2-CHLOROPHENOL UG/L             | 34586  | <4.0   |
| 2,4-DICHLOROPHENOL UG/L         | 34601  | <4.0   |
| 2,4-DIMETHYL PHENOL UG/L        | 34606  | <4.0   |
| 2,4-DINITROPHENOL UG/L          | 34616  | <4.0   |
| 2-METHYL-4,6-DINITROPHENOL UG/L | 34657  | <4.0   |
| 2-NITROPHENOL UG/L              | 34591  | <4.0   |
| 4-NITROPHENOL UG/L              | 34646  | <4.0   |
| PENTACHLOROPHENOL UG/L          | 39032  | <4.0   |
| PHENOL UG/L                     | 34694  | <4.0   |
| 2,4,6-TRICHLOROPHENOL UG/L      | 34621  | <4.0   |
| BENZIDINE UG/L                  | 39120  | <4.0   |
| HEXACHLOROXYCOPENTADIENE UG/L   | 34386  | <4.0   |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
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SAMPLE NUMBER : 0905910070  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
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MONDAY SEPTEMBER 16TH, 1991  
 RELEASE DATE : 09/16/91 13:28:34  
 DT COLLECTED : 09/05/91 10:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET. RESULT

PAGE 3

|                                |       |      |
|--------------------------------|-------|------|
| N-NITROSODIMETHYLAMINE UG/L    | 34438 | <4.0 |
| N-NITROSODIPHENYLAMINE UG/L    | 34433 | <4.0 |
| ANILINE UG/L                   | 77089 | <4.0 |
| BENZYL ALCOHOL UG/L            | 77147 | <4.0 |
| 2-METHYLPHENOL UG/L            |       | <4.0 |
| 4-METHYLPHENOL UG/L            |       | <4.0 |
| BENZOIC ACID UG/L              | 77247 | <4.0 |
| 4-CHLOROANILINE UG/L           |       | <4.0 |
| 2-METHYL NAPHTHALENE UG/L      | 77416 | <4.0 |
| 2,4,5-TRICHLOROPHENOL UG/L     | 77687 | <4.0 |
| 2-NITROANILINE UG/L            |       | <4.0 |
| 3-NITROANILINE UG/L            | 78300 | <4.0 |
| DIBENZOFURAN UG/L              | 81302 | <4.0 |
| 4-NITROANILINE UG/L            |       | <4.0 |
| AZOBENZENE UG/L                | 77625 | <4.0 |
|                                |       |      |
| BENZENE UG/L                   | 34030 | <2.0 |
| BROMODICHLOROMETHANE UG/L      | 32101 | <2.0 |
| BROMOFORM UG/L                 | 32104 | <2.0 |
| BROMOMETHANE UG/L              | 34413 | <2.0 |
| CARBON TETRACHLORIDE UG/L      | 32102 | <2.0 |
| CHLOROBENZENE UG/L             | 34301 | <2.0 |
| CHLOROETHANE UG/L              | 34311 | <2.0 |
| 2-CHLOROETHYL VINYL ETHER UG/L | 34576 | <2.0 |
| CHLOROFORM UG/L                | 32106 | <2.0 |
| CHLOROMETHANE UG/L             | 34418 | <2.0 |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT  
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 STATION CODE :

ANALYSIS

STORET RESULT

PAGE 4

|                                |       |               |
|--------------------------------|-------|---------------|
| DIBROMOCHLOROMETHANE UG/L      | 32105 | <2.0          |
| 1,2-DICHLOROBENZENE UG/L       | 34536 | <2.0          |
| 1,3-DICHLOROBENZENE UG/L       | 34566 | <2.0          |
| 1,4-DICHLOROBENZENE UG/L       | 34571 | <2.0          |
| 1,1-DICHLOROETHANE UG/L        | 34496 | <2.0          |
| 1,2-DICHLOROETHANE UG/L        | 34531 | 4.78          |
| 1,1-DICHLOROETHENE UG/L        | 34501 | <2.0          |
| TRANS-1,2-DICHLOROETHENE UG/L  | 34546 | <2.0          |
| 1,2-DICHLOROPROPANE UG/L       | 34541 | <2.0          |
| CIS-1,3-DICHLOROPROPENE UG/L   | 34704 | <2.0          |
| TRANS-1,3-DICHLOROPROPENE UG/L | 34699 | <2.0          |
| ETHYL BENZENE UG/L             | 34371 | <2.0          |
| METHYLENE CHLORIDE UG/L        | 34423 | <2.0          |
| 1,1,2,2-TETRACHLOROETHANE UG/L | 34516 | <2.0          |
| TETRACHLOROETHENE UG/L         | 34475 | <2.0          |
| TOLUENE UG/L                   | 34010 | <2.0          |
| 1,1,1-TRICHLOROETHANE UG/L     | 34506 | <2.0          |
| 1,1,2-TRICHLOROETHANE UG/L     | 34511 | <2.0          |
| TRICHLOROETHENE UG/L           | 39180 | <2.0          |
| TRICHLOROFLUOROMETHANE UG/L    | 34488 | <2.0          |
| VINYL CHLORIDE UG/L            | 39175 | <2.0          |
| XYLENE                         |       | NONE DETECTED |

COMMENTS:

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0905910071  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURRY

MONDAY SEPTEMBER 16TH, 1991  
 RELEASE DATE : 09/16/91 13:28:35  
 DT COLLECTED : 09/05/91 00:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE : BLANK

ANALYSIS

|                                | STORET | RESULT |
|--------------------------------|--------|--------|
| BENZENE UG/L                   | 34030  | <2.0   |
| BROMODICHLOROMETHANE UG/L      | 32101  | <2.0   |
| BROMOFORM UG/L                 | 32104  | <2.0   |
| BROMOMETHANE UG/L              | 34413  | <2.0   |
| CARBON TETRACHLORIDE UG/L      | 32102  | <2.0   |
| CHLOROBENZENE UG/L             | 34301  | <2.0   |
| CHLOROETHANE UG/L              | 34311  | <2.0   |
| 2-CHLOROETHYL VINYL ETHER UG/L | 34576  | <2.0   |
| CHLOROFORM UG/L                | 32106  | <2.0   |
| CHLOROMETHANE UG/L             | 34418  | <2.0   |
| DIBROMOCHLOROMETHANE UG/L      | 32105  | <2.0   |
| 1,2-DICHLOROBENZENE UG/L       | 34536  | <2.0   |
| 1,3-DICHLOROBENZENE UG/L       | 34566  | <2.0   |
| 1,4-DICHLOROBENZENE UG/L       | 34571  | <2.0   |
| 1,1-DICHLOROETHANE UG/L        | 34496  | <2.0   |
| 1,2-DICHLOROETHANE UG/L        | 34531  | <2.0   |
| 1,1-DICHLOROETHENE UG/L        | 34501  | <2.0   |
| TRANS-1,2-DICHLOROETHENE UG/L  | 34546  | <2.0   |
| 1,2-DICHLOROPROPANE UG/L       | 34541  | <2.0   |
| CIS-1,3-DICHLOROPROPENE UG/L   | 34704  | <2.0   |
| TRANS-1,3-DICHLOROPROPENE UG/L | 34699  | <2.0   |
| ETHYL BENZENE UG/L             | 34371  | <2.0   |
| METHYLENE CHLORIDE UG/L        | 34423  | <2.0   |
| 1,1,2,2-TETRACHLOROETHANE UG/L | 34516  | <2.0   |
| TETRACHLOROETHENE UG/L         | 34475  | <2.0   |
| TOLUENE UG/L                   | 34010  | <2.0   |
| 1,1,1-TRICHLOROETHANE UG/L     | 34506  | <2.0   |

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 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0905910071  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURRY

MONDAY SEPTEMBER 16TH, 1991  
 RELEASE DATE : 09/16/91 13:28:35  
 DT COLLECTED : 09/05/91 00:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE : BLANK

ANALYSIS

STORET RESULT

PAGE 2

| ANALYSIS                    | STORET | RESULT        |
|-----------------------------|--------|---------------|
| 1,1,2-TRICHLOROETHANE UG/L  | 34511  | <2.0          |
| TRICHLOROETHENE UG/L        | 39180  | <2.0          |
| TRICHLOROFLUOROMETHANE UG/L | 34488  | <2.0          |
| VINYL CHLORIDE UG/L         | 39175  | <2.0          |
| XYLENE                      |        | NONE DETECTED |

COMMENTS:

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
 Environmental Quality Control  
 Analytical Services Sample Request for Organic Compounds  
 in Solid Waste and Groundwater Protection Samples

UST

Sample Location Mrs. Scurry County Edgefield

Comments \_\_\_\_\_  
 Date 9-13-91 Collected By Cynde Deulin An "X" in the small column indicates test requested.

Sample Type:  Water    2. Soil/Sediment    3. Hazardous Waste    4. Other \_\_\_\_\_

|                                |                                     |                                     |              |             |
|--------------------------------|-------------------------------------|-------------------------------------|--------------|-------------|
| Time Collected (Milit.)        | <u>10:30</u>                        |                                     |              |             |
| Station No.                    |                                     |                                     |              |             |
| Lab. No.                       | <u>091391</u>                       | <u>0379</u>                         | <u>Blank</u> | <u>0380</u> |
| Pesticides/PCBs                |                                     |                                     |              |             |
| Herbicides                     |                                     |                                     |              |             |
| PCBs                           |                                     |                                     |              |             |
| Base Neutral/Acid Extractables |                                     |                                     |              |             |
| Volatile Organics              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |              |             |
| Petroleum Hydrocarbons         |                                     |                                     |              |             |

**RECEIVED**  
 OCT 15 1991  
 S.C. Dept. of Health & Environmental Control - Bureau of Solid & Hazardous Waste Management

Comments Analyze for 524

Date Received in Regional Laboratory \_\_\_\_\_ by \_\_\_\_\_  
 Date Released from Regional Laboratory \_\_\_\_\_ by \_\_\_\_\_  
 Date Received in Central Laboratory 9/13/91 by PC  
 Date Released from Central Laboratory 10/14/91 by TCK

ICB



\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0913910379  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : MRS. SCURRY

TUESDAY SEPTEMBER 17TH, 1991  
 RELEASE DATE : 09/17/91 13:03:25  
 DT COLLECTED : 09/13/91 10:30:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

| ANALYSIS                      | STORET | RESULT  |
|-------------------------------|--------|---------|
| BENZENE MG/L                  | 2990   | 0.0192  |
| BROMOBENZENE MG/L             | 2993   | <0.0005 |
| BROMOCHLOROMETHANE MG/L       | 2430   | <0.0005 |
| BROMODICHLOROMETHANE MG/L     | 2943   | <0.0005 |
| BROMOFORM MG/L                | 2942   | <0.0005 |
| BROMOMETHANE MG/L             | 2214   | <0.0005 |
| N-BUTYLBENZENE MG/L           | 2422   | <0.0005 |
| SEC-BUTYLBENZENE MG/L         | 2428   | <0.0005 |
| TERT-BUTYLBENZENE MG/L        | 2426   | <0.0005 |
| CARBON TETRACHLORIDE MG/L     | 2982   | <0.0005 |
| CHLOROBENZENE MG/L            | 2989   | <0.0005 |
| CHLOROETHANE MG/L             | 2216   | <0.0005 |
| CHLOROFORM MG/L               | 2941   | <0.0005 |
| CHLOROMETHANE MG/L            | 2210   | <0.0005 |
| 2-CHLOROTOLUENE MG/L          | 2965   | <0.0005 |
| 4-CHLOROTOLUENE MG/L          | 2966   | <0.0005 |
| DIBROMOCHLOROMETHANE MG/L     | 2944   | <0.0005 |
| DIBROMOMETHANE MG/L           | 2408   | <0.0005 |
| 1,2-DICHLOROBENZENE MG/L      | 2968   | <0.0005 |
| 1,3-DICHLOROBENZENE MG/L      | 2967   | <0.0005 |
| 1,4-DICHLOROBENZENE MG/L      | 2969   | <0.0005 |
| DICHLORODIFLUOROMETHANE MG/L  | 2212   | <0.0005 |
| 1,1-DICHLOROETHANE MG/L       | 2978   | <0.0005 |
| 1,2-DICHLOROETHANE MG/L       | 2980   | 0.00374 |
| CIS-1,2-DICHLOROETHENE MG/L   | 2380   | <0.0005 |
| TRANS-1,2-DICHLOROETHENE MG/L | 2979   | <0.0005 |

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 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
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SAMPLE NUMBER : 0913910379  
 CHARGE NUMBER : UST  
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 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : MRS. SCURRY

TUESDAY SEPTEMBER 17TH, 1991  
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 DT COLLECTED : 09/13/91 10:30:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

|                                |      |         |
|--------------------------------|------|---------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977 | <0.0005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983 | <0.0005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412 | <0.0005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416 | <0.0005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410 | <0.0005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228 | <0.0005 |
| ETHYLBENZENE MG/L              | 2992 | 0.00169 |
| HEXACHLOROBUTADIENE MG/L       | 2246 | <0.0005 |
| ISOPROPYLBENZENE MG/L          | 2994 | 0.00173 |
| P-ISOPROPYLTOLUENE MG/L        | 2030 | 0.00164 |
| METHYLENE CHLORIDE MG/L        | 2964 | <0.0005 |
| NAPHTHALENE MG/L               | 2248 | 0.00562 |
| N-PROPYLBENZENE MG/L           | 2998 | 0.00214 |
| STYRENE MG/L                   | 2996 | <0.0005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986 | <0.0005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988 | <0.0005 |
| TETRACHLOROETHENE MG/L         | 2987 | <0.0005 |
| TOLUENE MG/L                   | 2991 | 0.00430 |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420 | <0.0005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378 | <0.0005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981 | <0.0005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985 | <0.0005 |
| TRICHLOROETHYLENE MG/L         | 2984 | <0.0005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218 | <0.0005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414 | <0.0005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418 | 0.0106  |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424 | <0.0005 |

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 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0913910379  
 CHARGE NUMBER : UST  
 COLLECTED BY : C. DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : MRS. SCURRY

TUESDAY SEPTEMBER 17TH, 1991  
 RELEASE DATE : 09/17/91 13:03:25  
 DT COLLECTED : 09/13/91 10:30:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

PAGE 3

| ANALYSIS                         | STORET | RESULT       |
|----------------------------------|--------|--------------|
| VINYL CHLORIDE MG/L              | 2976   | <0.0005      |
| O-XYLENE MG/L                    | 2997   | 0.00723      |
| M-XYLENE MG/L                    | 2995   | SEE COMMENTS |
| P-XYLENE MG/L                    | 2999   | SEE COMMENTS |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931   | <0.0005      |
| 1,2-DIBROMOETHANE MG/L           | 2946   | <0.0005      |
| M,P-XYLENES MG/L                 |        | 0.0114       |

COMMENTS:  
 REPORTED AS M,P-XYLENES.

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 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0913910380  
 CHARGE NUMBER : UST  
 COLLECTED BY : C. DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : MRS. SCURRY

TUESDAY SEPTEMBER 17TH, 1991  
 RELEASE DATE : 09/17/91 13:03:26  
 DT COLLECTED : 09/13/91 10:30:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE : BLANK

ANALYSIS

STORET RESULT

| ANALYSIS                      | STORET | RESULT  |
|-------------------------------|--------|---------|
| BENZENE MG/L                  | 2990   | <0.0005 |
| BROMOBENZENE MG/L             | 2993   | <0.0005 |
| BROMOCHLOROMETHANE MG/L       | 2430   | <0.0005 |
| BROMODICHLOROMETHANE MG/L     | 2943   | <0.0005 |
| BROMOFORM MG/L                | 2942   | <0.0005 |
| BROMOMETHANE MG/L             | 2214   | <0.0005 |
| N-BUTYLBENZENE MG/L           | 2422   | <0.0005 |
| SEC-BUTYLBENZENE MG/L         | 2428   | <0.0005 |
| TERT-BUTYLBENZENE MG/L        | 2426   | <0.0005 |
| CARBON TETRACHLORIDE MG/L     | 2982   | <0.0005 |
| CHLOROBENZENE MG/L            | 2989   | <0.0005 |
| CHLOROETHANE MG/L             | 2216   | <0.0005 |
| CHLOROFORM MG/L               | 2941   | <0.0005 |
| CHLOROMETHANE MG/L            | 2210   | <0.0005 |
| 2-CHLOROTOLUENE MG/L          | 2965   | <0.0005 |
| 4-CHLOROTOLUENE MG/L          | 2966   | <0.0005 |
| DIBROMOCHLOROMETHANE MG/L     | 2944   | <0.0005 |
| DIBROMOMETHANE MG/L           | 2408   | <0.0005 |
| 1,2-DICHLOROBENZENE MG/L      | 2968   | <0.0005 |
| 1,3-DICHLOROBENZENE MG/L      | 2967   | <0.0005 |
| 1,4-DICHLOROBENZENE MG/L      | 2969   | <0.0005 |
| DICHLORODIFLUOROMETHANE MG/L  | 2212   | <0.0005 |
| 1,1-DICHLOROETHANE MG/L       | 2978   | <0.0005 |
| 1,2-DICHLOROETHANE MG/L       | 2980   | <0.0005 |
| CIS-1,2-DICHLOROETHENE MG/L   | 2380   | <0.0005 |
| TRANS-1,2-DICHLOROETHENE MG/L | 2979   | <0.0005 |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0913910380  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : MRS. SCURRY

TUESDAY SEPTEMBER 17TH, 1991  
 RELEASE DATE : 09/17/91 13:03:26  
 DT COLLECTED : 09/13/91 10:30:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE : BLANK

ANALYSIS

|                                | STORET | RESULT  |
|--------------------------------|--------|---------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977   | <0.0005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983   | <0.0005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412   | <0.0005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416   | <0.0005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410   | <0.0005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228   | <0.0005 |
| ETHYLBENZENE MG/L              | 2992   | <0.0005 |
| HEXACHLOROBUTADIENE MG/L       | 2246   | <0.0005 |
| ISOPROPYLBENZENE MG/L          | 2994   | <0.0005 |
| P-ISOPROPYLTOLUENE MG/L        | 2030   | <0.0005 |
| METHYLENE CHLORIDE MG/L        | 2964   | <0.0005 |
| NAPHTHALENE MG/L               | 2248   | <0.0005 |
| N-PROPYLBENZENE MG/L           | 2998   | <0.0005 |
| STYRENE MG/L                   | 2996   | <0.0005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986   | <0.0005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988   | <0.0005 |
| TETRACHLOROETHENE MG/L         | 2987   | <0.0005 |
| TOLUENE MG/L                   | 2991   | <0.0005 |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420   | <0.0005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378   | <0.0005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981   | <0.0005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985   | <0.0005 |
| TRICHLOROETHYLENE MG/L         | 2984   | <0.0005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218   | <0.0005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414   | <0.0005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418   | <0.0005 |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424   | <0.0005 |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0913910380  
 CHARGE NUMBER : UST  
 COLLECTED BY : C DEVLIN  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : MRS. SCURRY

TUESDAY SEPTEMBER 17TH, 1991  
 RELEASE DATE : 09/17/91 13:03:26  
 DT COLLECTED : 09/13/91 10:30:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE : BLANK

ANALYSIS

STORET RESULT

PAGE 3

|                                  |      |         |
|----------------------------------|------|---------|
| VINYL CHLORIDE MG/L              | 2976 | <0.0005 |
| O-XYLENE MG/L                    | 2997 | <0.0005 |
| M-XYLENE MG/L                    | 2995 | <0.0005 |
| P-XYLENE MG/L                    | 2999 | <0.0005 |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931 | <0.0005 |
| 1,2-DIBROMOETHANE MG/L           | 2946 | <0.0005 |

COMMENTS:

LUS

**To Be Completed By Collector:**

Date Collected 1-8-92  
 Time Collected 15:05 - 15:40  
 Collected By G. Withycombe

**Public Water System Information:**  
 (If Applicable)

Name Scurry Well  
 System Number \_\_\_\_\_

**Sample Type:**

Initial  
 Repeat  
 Main Clearance

**Analysis Requested:**

Total Coliform  
 Fecal Coliform  
 HPC  
 \_\_\_\_\_

**Mailing Address:**

Name Greg Withycombe  
 Address Ground Water Protection Division  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 County Edgefield Telephone No. 935-6302

**PLEASE NOTE:**  
 THIS REPORT REPRESENTS THE BACTERIOLOGICAL QUALITY OF THE WATER SAMPLE SUBMITTED TO THE DHEC LABORATORY.  
 IT DOES NOT REPRESENT APPROVAL OF WATER SYSTEM CONSTRUCTION OR APPROVAL FOR REAL ESTATE LOANS.

▼ ▼ ▼ Please Complete All Applicable White Areas Of Form  
 ▼ ▼ ▼ Areas In Gray Are For Laboratory Use Only ▼ ▼ ▼

| Laboratory Number | Sample No. | Sample Location | Chlorine Residual | Total Coliform |   | Fecal Coliform |   | Verif'd (✓) | HPC (per ml) |
|-------------------|------------|-----------------|-------------------|----------------|---|----------------|---|-------------|--------------|
|                   |            |                 |                   | P              | A | P              | A |             |              |
| 0109920538        | 1          | Sink            |                   |                | ✓ |                |   |             |              |
| 539               | 2          | Well Head       |                   |                | ✓ |                |   |             |              |
|                   |            |                 |                   |                |   |                |   |             |              |
|                   |            |                 |                   |                |   |                |   |             |              |

|                                     |                                     |                        |
|-------------------------------------|-------------------------------------|------------------------|
| <b>Laboratory Use Only</b>          |                                     |                        |
| Received By <u>NDO</u>              | Examined By <u>NPM</u>              | Reported By <u>KES</u> |
| Date <u>1-9-92</u> Time <u>1115</u> | Date <u>1/9/92</u> Time <u>1200</u> | Date <u>1-10-92</u>    |

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 0109920358  
Charge Code: L U S

Collected By: G. Withycombe

System No.: \_\_\_\_\_

County: Edgefield

Date Collected: 01/08/92

Military Time Collected: 1505

SAMPLE DESCRIPTION:

Source ID: \_\_\_\_\_

Sample Type:  C  P  VSS  
 D  R   
 F  S   
 M  W

Location: Scurry Well Sink

System Name: \_\_\_\_\_

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

- Base-Neutral / Acid Extractables (Investigation)
- Controlled Fluoridation (Routine)
- Herbicides (Investigation)
- Hydrocarbons (Investigation)
- Nitrate (Routine)
- Pesticides (Investigation)
- Private Routine
- Public Complete (Investigation)
- Public Complete (New Source)
- Public Complete (Routine)
- Public Complete + Organics (Routine)
- Trihalomethanes (Routine)
- Volatile Organic Compounds (Investigation)
- Volatile Organic Compounds (Routine - Regulated Compounds Only)
- Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
- Other: BTEX

B. INDIVIDUAL ANALYSES:

- Alkalinity
- Aluminum
- Ammonia
- Arsenic
- Barium
- Cadmium
- Calcium
- Chloride
- Chromium
- Color
- Copper
- Cyanide
- Fluoride
- Hardness
- Hydrogen Sulfide
- Iron
- Lead
- MBAS
- Magnesium
- Manganese
- Mercury
- Nickel
- Nitrate
- Nitrite
- Oil & Grease
- pH
- Phenol
- Phosphorus
- Potassium
- Silver
- Sodium
- Sulfate
- Total Dissolved Solids
- Total Organic Carbon
- Total Solids
- Turbidity
- Zinc
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l  
Turbidity \_\_\_\_\_ N.T.U.  
Color \_\_\_\_\_ C.U.  
pH \_\_\_\_\_  
Alkalinity \_\_\_\_\_ mg/l  
Other: \_\_\_\_\_  
\_\_\_\_\_ mg/l

COMMENTS:

*Send results to:*  
G. Withycombe  
D.W.P.

RECEIVED

FEB 04 1992

Groundwater Protection Division

RECEIVED:

(Regional) \_\_\_/\_\_\_/\_\_\_  
By \_\_\_\_\_  
(Central) 01/09/92  
By KAC

RELEASED:

(Regional) \_\_\_/\_\_\_/\_\_\_  
By \_\_\_\_\_  
(Central) 01/31/92  
By TK



\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0109920358  
 CHARGE NUMBER : LUS  
 COLLECTED BY : G WITTHYCOMBE  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURREY WELL HEAD

FRIDAY JANUARY 31ST, 1992  
 RELEASE DATE : 01/31/92 15:39:33  
 DT COLLECTED : 01/08/92 15:05:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

| ANALYSIS                      | STORET | RESULT  |
|-------------------------------|--------|---------|
| BENZENE MG/L                  | 2990   | <0.0005 |
| BROMOBENZENE MG/L             | 2993   | <0.0005 |
| BROMOCHLOROMETHANE MG/L       | 2430   | <0.0005 |
| BROMODICHLOROMETHANE MG/L     | 2943   | 0.0121  |
| BROMOFORM MG/L                | 2942   | 0.00763 |
| BROMOMETHANE MG/L             | 2214   | <0.0005 |
| N-BUTYLBENZENE MG/L           | 2422   | 0.00149 |
| SEC-BUTYLBENZENE MG/L         | 2428   | <0.0005 |
| TERT-BUTYLBENZENE MG/L        | 2426   | <0.0005 |
| CARBON TETRACHLORIDE MG/L     | 2982   | <0.0005 |
| CHLOROBENZENE MG/L            | 2989   | <0.0005 |
| CHLOROETHANE MG/L             | 2216   | <0.0005 |
| CHLOROFORM MG/L               | 2941   | 0.0127  |
| CHLOROMETHANE MG/L            | 2210   | <0.0005 |
| 2-CHLOROTOLUENE MG/L          | 2965   | <0.0005 |
| 4-CHLOROTOLUENE MG/L          | 2966   | <0.0005 |
| DIBROMOCHLOROMETHANE MG/L     | 2944   | 0.00879 |
| DIBROMOMETHANE MG/L           | 2408   | <0.0005 |
| 1,2-DICHLOROBENZENE MG/L      | 2968   | <0.0005 |
| 1,3-DICHLOROBENZENE MG/L      | 2967   | <0.0005 |
| 1,4-DICHLOROBENZENE MG/L      | 2969   | <0.0005 |
| DICHLORODIFLUOROMETHANE MG/L  | 2212   | <0.0005 |
| 1,1-DICHLOROETHANE MG/L       | 2978   | <0.0005 |
| 1,2-DICHLOROETHANE MG/L       | 2980   | <0.0005 |
| CIS-1,2-DICHLOROETHENE MG/L   | 2380   | <0.0005 |
| TRANS-1,2-DICHLOROETHENE MG/L | 2979   | <0.0005 |

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FEB 04 1992

Groundwater Protection  
 Division

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 01Q9920358  
 CHARGE NUMBER : LUS  
 COLLECTED BY : G WITHYCOMBE  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURREY WELL HEAD

FRIDAY JANUARY 31ST, 1992  
 RELEASE DATE : 01/31/92 15:39:33  
 DT COLLECTED : 01/08/92 15:05:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

| ANALYSIS                       | STORET | RESULT  |
|--------------------------------|--------|---------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977   | <0.0005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983   | <0.0005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412   | <0.0005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416   | <0.0005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410   | <0.0005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228   | <0.0005 |
| ETHYLBENZENE MG/L              | 2992   | <0.0005 |
| HEXACHLOROBUTADIENE MG/L       | 2246   | <0.0005 |
| ISOPROPYLBENZENE MG/L          | 2994   | <0.0005 |
| P-ISOPROPYLTOLUENE MG/L        | 2030   | <0.0005 |
| METHYLENE CHLORIDE MG/L        | 2964   | <0.0005 |
| NAPHTHALENE MG/L               | 2248   | <0.0005 |
| N-PROPYLBENZENE MG/L           | 2998   | <0.0005 |
| STYRENE MG/L                   | 2996   | <0.0005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986   | <0.0005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988   | <0.0005 |
| TETRACHLOROETHENE MG/L         | 2987   | <0.0005 |
| TOLUENE MG/L                   | 2991   | <0.0005 |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420   | <0.0005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378   | <0.0005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981   | <0.0005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985   | <0.0005 |
| TRICHLOROETHYLENE MG/L         | 2984   | <0.0005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218   | <0.0005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414   | <0.0005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418   | <0.0005 |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424   | <0.0005 |

\*\*\*\*\*  
\* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
\* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
\*\*\*\*\*

SAMPLE NUMBER : 0109920358  
CHARGE NUMBER : LUS  
COLLECTED BY : G WITHYCOMBE  
COUNTY : EDGEFIELD  
SAMPLE DESCRIPTION : SCURREY WELL HEAD

FRIDAY JANUARY 31ST, 1992  
RELEASE DATE : 01/31/92 15:39:33  
DT COLLECTED : 01/08/92 15:05:00  
SAMPLE MEDIUM : WATER  
STATION CODE :

ANALYSIS

STORET RESULT

PAGE 3

|                                  |      |         |
|----------------------------------|------|---------|
| VINYL CHLORIDE MG/L              | 2976 | <0.0005 |
| O-XYLENE MG/L                    | 2997 | <0.0005 |
| M-XYLENE MG/L                    | 2995 | <0.0005 |
| P-XYLENE MG/L                    | 2999 | <0.0005 |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931 | <0.0005 |
| 1,2-DIBROMOETHANE MG/L           | 2946 | <0.0005 |

COMMENTS:

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 010992 0357

Charge Code: LUS

Collected By: G Withycombe

System No.: \_\_\_\_\_

County: Edge Field

Date Collected: 01/08/92

Military Time Collected: 1540

SAMPLE DESCRIPTION:

Source ID: \_\_\_\_\_

Sample Type: [ ] C [ ] P [ ] D [ ] R [ ] F [ ] S [ ] M [ ] W [ ] SS

Location: Scurry Well Head

System Name: \_\_\_\_\_

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

- [ ] Base-Neutral / Acid Extractables (Investigation)
[ ] Controlled Fluoridation (Routine)
[ ] Herbicides (Investigation)
[ ] Hydrocarbons (Investigation)
[ ] Nitrate (Routine)
[ ] Pesticides (Investigation)
[ ] Private Routine
[ ] Public Complete (Investigation)
[ ] Public Complete (New Source)
[ ] Public Complete (Routine)
[ ] Public Complete + Organics (Routine)
[ ] Trihalomethanes (Routine)
[ ] Volatile Organic Compounds (Investigation)
[ ] Volatile Organic Compounds (Routine - Regulated Compounds Only)
[ ] Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)

Other: BTEK

B. INDIVIDUAL ANALYSES:

- [ ] Alkalinity
[ ] Aluminum
[ ] Ammonia
[ ] Arsenic
[ ] Barium
[ ] Cadmium
[ ] Calcium
[ ] Chloride
[ ] Chromium
[ ] Color
[ ] Copper
[ ] Cyanide
[ ] Fluoride
[ ] Hardness
[ ] Hydrogen Sulfide
[ ] Iron
[ ] Lead
[ ] MBAS
[ ] Magnesium
[ ] Manganese
[ ] Mercury
[ ] Nickel
[ ] Nitrate
[ ] Nitrite
[ ] Oil & Grease
[ ] pH
[ ] Phenol
[ ] Phosphorus
[ ] Potassium
[ ] Silver
[ ] Sodium
[ ] Sulfate
[ ] Total Dissolved Solids
[ ] Total Organic Carbon
[ ] Total Solids
[ ] Turbidity
[ ] Zinc
[ ] Other:
[ ] Other:

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l
Turbidity \_\_\_\_\_ N.T.U.
Color \_\_\_\_\_ C.U.
pH \_\_\_\_\_
Alkalinity \_\_\_\_\_ mg/l
Other: \_\_\_\_\_ mg/l

COMMENTS:

Send results to G. Withycombe D.W.P.

RECEIVED

FEB 04 1992

Groundwater Protection Division

RECEIVED:

(Regional) \_\_\_/\_\_\_/\_\_\_
By \_\_\_\_\_
(Central) 01/09/92
By KAC

RELEASED:

(Regional) \_\_\_/\_\_\_/\_\_\_
By \_\_\_\_\_
(Central) 01/31/92
By TCK

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0109920357  
 CHARGE NUMBER : LUS  
 COLLECTED BY : G WITHYCOMBE  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURREY WELL HEAD

FRIDAY JANUARY 31ST, 1992  
 RELEASE DATE : 01/31/92 15:39:33  
 DT COLLECTED : 01/08/92 15:40:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

| ANALYSIS                      | STORET | RESULT |
|-------------------------------|--------|--------|
| BENZENE MG/L                  | 2990   | <0.005 |
| BROMOBENZENE MG/L             | 2993   | <0.005 |
| BROMOCHLOROMETHANE MG/L       | 2430   | <0.005 |
| BROMODICHLOROMETHANE MG/L     | 2943   | 0.193  |
| BROMOFORM MG/L                | 2942   | 0.0139 |
| BROMOMETHANE MG/L             | 2214   | <0.005 |
| N-BUTYLBENZENE MG/L           | 2422   | <0.005 |
| SEC-BUTYLBENZENE MG/L         | 2428   | <0.005 |
| TERT-BUTYLBENZENE MG/L        | 2426   | <0.005 |
| CARBON TETRACHLORIDE MG/L     | 2982   | <0.005 |
| CHLOROENZENE MG/L             | 2989   | <0.005 |
| CHLOROETHANE MG/L             | 2216   | <0.005 |
| CHLOROFORM MG/L               | 2941   | 0.231  |
| CHLOROMETHANE MG/L            | 2210   | <0.005 |
| 2-CHLOROTOLUENE MG/L          | 2965   | <0.005 |
| 4-CHLOROTOLUENE MG/L          | 2966   | <0.005 |
| DIBROMOCHLOROMETHANE MG/L     | 2944   | 0.0661 |
| DIBROMOMETHANE MG/L           | 2408   | <0.005 |
| 1,2-DICHLOROBENZENE MG/L      | 2968   | <0.005 |
| 1,3-DICHLOROBENZENE MG/L      | 2967   | <0.005 |
| 1,4-DICHLOROBENZENE MG/L      | 2969   | <0.005 |
| DICHLORODIFLUOROMETHANE MG/L  | 2212   | <0.005 |
| 1,1-DICHLOROETHANE MG/L       | 2978   | <0.005 |
| 1,2-DICHLOROETHANE MG/L       | 2980   | <0.005 |
| CIS-1,2-DICHLOROETHENE MG/L   | 2380   | <0.005 |
| TRANS-1,2-DICHLOROETHENE MG/L | 2979   | <0.005 |

RECEIVED

FEB 04 1992

Groundwater Protection  
 Division

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0109920357  
 CHARGE NUMBER : LUS  
 COLLECTED BY : G WITHYCOMBE  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURREY WELL HEAD

FRIDAY JANUARY 31ST, 1992  
 RELEASE DATE : 01/31/92 15:39:33  
 DT COLLECTED : 01/08/92 15:40:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

| ANALYSIS                       | STORET | RESULT |
|--------------------------------|--------|--------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977   | <0.005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983   | <0.005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412   | <0.005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416   | <0.005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410   | <0.005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228   | <0.005 |
| ETHYLBENZENE MG/L              | 2992   | <0.005 |
| HEXACHLOROBUTADIENE MG/L       | 2246   | <0.005 |
| ISOPROPYLBENZENE MG/L          | 2994   | <0.005 |
| P-ISOPROPYLTOLUENE MG/L        | 2030   | <0.005 |
| METHYLENE CHLORIDE MG/L        | 2964   | <0.005 |
| NAPHTHALENE MG/L               | 2248   | <0.005 |
| N-PROPYLBENZENE MG/L           | 2998   | <0.005 |
| STYRENE MG/L                   | 2996   | <0.005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986   | <0.005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988   | <0.005 |
| TETRACHLOROETHENE MG/L         | 2987   | <0.005 |
| TOLUENE MG/L                   | 2991   | <0.005 |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420   | <0.005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378   | <0.005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981   | <0.005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985   | <0.005 |
| TRICHLOROETHYLENE MG/L         | 2984   | <0.005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218   | <0.005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414   | <0.005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418   | <0.005 |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424   | <0.005 |

\*\*\*\*\*  
\* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
\* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
\*\*\*\*\*

SAMPLE NUMBER : 0109920357  
CHARGE NUMBER : LUS  
COLLECTED BY : G WITHYCOMBE  
COUNTY : EDGEFIELD  
SAMPLE DESCRIPTION : SCURRY WELL HEAD

FRIDAY JANUARY 31ST, 1992  
RELEASE DATE : 01/31/92 15:39:33  
DT COLLECTED : 01/08/92 15:40:00  
SAMPLE MEDIUM : WATER  
STATION CODE :

ANALYSIS

STORET RESULT

PAGE 3

|                                  |      |        |
|----------------------------------|------|--------|
| VINYL CHLORIDE MG/L              | 2976 | <0.005 |
| O-XYLENE MG/L                    | 2997 | <0.005 |
| M-XYLENE MG/L                    | 2995 | <0.005 |
| P-XYLENE MG/L                    | 2999 | <0.005 |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931 | <0.005 |
| 1,2-DIBROMOETHANE MG/L           | 2946 | <0.005 |

COMMENTS:

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 0109920359

Charge Code: LUS

Collected By: G. Withycombe

System No.: \_\_\_\_\_

County: Edgefield

Date Collected: 01/08/92

Military Time Collected: 1505

SAMPLE DESCRIPTION:

Source ID: \_\_\_\_\_

Sample Type: [ ] C [ ] P [ ] D [ ] R [ ] F [ ] S [ ] M [ ] W

Location: Field Blank for 0357 + 0358

System Name: \_\_\_\_\_

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

B. INDIVIDUAL ANALYSES:

- [ ] Base-Neutral / Acid Extractables (Investigation)
[ ] Controlled Fluoridation (Routine)
[ ] Herbicides (Investigation)
[ ] Hydrocarbons (Investigation)
[ ] Nitrate (Routine)
[ ] Pesticides (Investigation)
[ ] Private Routine
[ ] Public Complete (Investigation)
[ ] Public Complete (New Source)
[ ] Public Complete (Routine)
[ ] Public Complete + Organics (Routine)
[ ] Trihalomethanes (Routine)
[ ] Volatile Organic Compounds (Investigation)
[ ] Volatile Organic Compounds (Routine - Regulated Compounds Only)
[ ] Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
Other: BTEV

- [ ] Alkalinity
[ ] Aluminum
[ ] Ammonia
[ ] Arsenic
[ ] Barium
[ ] Cadmium
[ ] Calcium
[ ] Chloride
[ ] Chromium
[ ] Color
[ ] Copper
[ ] Cyanide
[ ] Fluoride
[ ] Hardness
[ ] Hydrogen Sulfide
[ ] Iron
[ ] Lead
[ ] MBAS
[ ] Magnesium
[ ] Manganese
[ ] Mercury
[ ] Nickel
[ ] Nitrate
[ ] Nitrite
[ ] Oil & Grease
[ ] pH
[ ] Phenol
[ ] Phosphorus
[ ] Potassium
[ ] Silver
[ ] Sodium
[ ] Sulfate
[ ] Total Dissolved Solids
[ ] Total Organic Carbon
[ ] Total Solids
[ ] Turbidity
[ ] Zinc
[ ] Other:
[ ] Other:

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l
Turbidity \_\_\_\_\_ N.T.U.
Color \_\_\_\_\_ C.U.
pH \_\_\_\_\_
Alkalinity \_\_\_\_\_ mg/l
Other: \_\_\_\_\_ mg/l

COMMENTS:

Send Results to:
G. Withycombe
D.W.P.

RECEIVED

FEB 04 1992

Groundwater Protection Division

RECEIVED:

(Regional) \_\_\_/\_\_\_/\_\_\_
By \_\_\_\_\_
(Central) 01/09/92
By KAC

RELEASED:

(Regional) \_\_\_/\_\_\_/\_\_\_
By \_\_\_\_\_
(Central) 01/31/92
By TCK



\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0109920359                      TUESDAY JANUARY 28TH, 1992  
 CHARGE NUMBER : LUS                                RELEASE DATE : 01/28/92 14:56:58  
 COLLECTED BY : G WITHYCOMBE                     DT COLLECTED : 01/08/92 15:05:00  
 COUNTY : EDGEFIELD                                SAMPLE MEDIUM : WATER  
 SAMPLE DESCRIPTION : FLD BLK FOR 0357 & 0358    STATION CODE :

| ANALYSIS          | STORET | RESULT |
|-------------------|--------|--------|
| BENZENE UG/L      |        | <2.0   |
| TOLUENE UG/L      |        | <2.0   |
| ETHYLBENZENE UG/L |        | <2.0   |
| XYLENE UG/L       |        | <2.0   |

RECEIVED  
 FEB 04 1992  
 Groundwater Protection  
 Division

COMMENTS:



\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0205920397 WEDNESDAY FEBRUARY 26TH, 1992  
 CHARGE NUMBER : LUS RELEASE DATE : 02/26/92 14:44:44  
 COLLECTED BY : D PAYNE DT COLLECTED : 02/05/92 13:00:00  
 COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
 SAMPLE DESCRIPTION : SCURRY RESIDENCE-HOUSE STATION CODE :

ANALYSIS

STORET RESULT

PAGE 2

| ANALYSIS                       | STORET | RESULT  |
|--------------------------------|--------|---------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977   | <0.0005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983   | <0.0005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412   | <0.0005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416   | <0.0005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410   | <0.0005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228   | <0.0005 |
| ETHYLBENZENE MG/L              | 2992   | <0.0005 |
| HEXACHLOROBUTADIENE MG/L       | 2246   | <0.0005 |
| ISOPROPYLBENZENE MG/L          | 2994   | <0.0005 |
| P-ISOPROPYLTOLUENE MG/L        | 2030   | <0.0005 |
| METHYLENE CHLORIDE MG/L        | 2964   | <0.0005 |
| NAPHTHALENE MG/L               | 2248   | <0.0005 |
| N-PROPYLBENZENE MG/L           | 2998   | <0.0005 |
| STYRENE MG/L                   | 2996   | <0.0005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986   | <0.0005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988   | <0.0005 |
| TETRACHLOROETHENE MG/L         | 2987   | <0.0005 |
| TOLUENE MG/L                   | 2991   | 0.002   |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420   | <0.0005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378   | <0.0005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981   | <0.0005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985   | <0.0005 |
| TRICHLOROETHYLENE MG/L         | 2984   | <0.0005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218   | <0.0005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414   | <0.0005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418   | <0.0005 |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424   | <0.0005 |

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\* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
\* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
\*\*\*\*\*

SAMPLE NUMBER : 0205920397 WEDNESDAY FEBRUARY 26TH, 1992  
CHARGE NUMBER : LUS RELEASE DATE : 02/26/92 14:44:44  
COLLECTED BY : D PAYME DT COLLECTED : 02/05/92 13:00:00  
COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
SAMPLE DESCRIPTION : SCURRY RESIDENCE-HOUSE STATION CODE :

ANALYSIS

STORET RESULT

PAGE 3

|                                  |      |         |
|----------------------------------|------|---------|
| VINYL CHLORIDE MG/L              | 2976 | <0.0005 |
| O-XYLENE MG/L                    | 2997 | <0.0005 |
| M-XYLENE MG/L                    | 2995 | <0.0005 |
| P-XYLENE MG/L                    | 2999 | <0.0005 |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931 | <0.0005 |
| 1,2-DIBROMOETHANE MG/L           | 2946 | <0.0005 |

COMMENTS:

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 0205920396 Charge Code: L U S

Collected By: DAVID PAYNE - DHER

System No.: \_\_\_\_\_

County: EDGEFIELD

Date Collected: 9/2/02/05

Military Time Collected: 1300

SAMPLE DESCRIPTION:

Source ID: \_\_\_\_\_

Sample Type: [ ] C [ ] P [ ] V [ ] D [ ] R [ ] [ ] F [ ] S [ ] M [ ] W

Location: SCURRY RESIDENCE - WELL

System Name: \_\_\_\_\_

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

- [ ] Base-Neutral / Acid Extractables (Investigation)
[ ] Controlled Fluoridation (Routine)
[ ] Herbicides (Investigation)
[ ] Hydrocarbons (Investigation)
[ ] Nitrate (Routine)
[ ] Pesticides (Investigation)
[ ] Private Routine
[ ] Public Complete (Investigation)
[ ] Public Complete (New Source)
[ ] Public Complete (Routine)
[ ] Public Complete + Organics (Routine)
[ ] Trihalomethanes (Routine)
[X] Volatile Organic Compounds (Investigation)
[ ] Volatile Organic Compounds (Routine - Regulated Compounds Only)
[X] Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
[ ] Other: \_\_\_\_\_

B. INDIVIDUAL ANALYSES:

- [ ] Alkalinity
[ ] Aluminum
[ ] Ammonia
[ ] Arsenic
[ ] Barium
[ ] Cadmium
[ ] Calcium
[ ] Chloride
[ ] Chromium
[ ] Color
[ ] Copper
[ ] Cyanide
[ ] Fluoride
[ ] Hardness
[ ] Hydrogen Sulfide
[ ] Iron
[ ] Lead
[ ] MBAS
[ ] Magnesium
[ ] Manganese
[ ] Mercury
[ ] Nickel
[ ] Nitrate
[ ] Nitrite
[ ] Oil & Grease
[ ] pH
[ ] Phenol
[ ] Phosphorus
[ ] Potassium
[ ] Silver
[ ] Sodium
[ ] Sulfate
[ ] Total Dissolved Solids
[ ] Total Organic Carbon
[ ] Total Solids
[ ] Turbidity
[ ] Zinc
[ ] Other: \_\_\_\_\_
[ ] Other: \_\_\_\_\_

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l
Turbidity \_\_\_\_\_ N.T.U.
Color \_\_\_\_\_ C.U.
pH \_\_\_\_\_
Alkalinity \_\_\_\_\_ mg/l
Other: \_\_\_\_\_ mg/l

COMMENTS:

SEND RESULTS TO BOB FALLER GROUNDWATER PROT. DIVISION - STATE PARK BUILDING #16

RECEIVED:

(Regional) \_\_\_/\_\_\_/\_\_\_
By \_\_\_\_\_
(Central) 02/05/92
By KAC

RELEASED:

(Regional) \_\_\_/\_\_\_/\_\_\_
By \_\_\_\_\_
(Central) 02/26/92
By TCR

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0205920396  
 CHARGE NUMBER : LUS  
 COLLECTED BY : D PAYNE  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURRY RESIDENCE-WELL

WEDNESDAY FEBRUARY 26TH, 1992  
 RELEASE DATE : 02/26/92 14:44:44  
 DT COLLECTED : 02/05/92 13:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

| ANALYSIS                      | STORET | RESULT  |
|-------------------------------|--------|---------|
| BENZENE MG/L                  | 2990   | <0.0005 |
| BROMOBENZENE MG/L             | 2993   | <0.0005 |
| BROMOCHLOROMETHANE MG/L       | 2430   | <0.0005 |
| BROMODICHLOROMETHANE MG/L     | 2943   | 0.004   |
| BROMOFORM MG/L                | 2942   | 0.005   |
| BROMOMETHANE MG/L             | 2214   | <0.0005 |
| N-BUTYLBENZENE MG/L           | 2422   | <0.0005 |
| SEC-BUTYLBENZENE MG/L         | 2428   | <0.0005 |
| TERT-BUTYLBENZENE MG/L        | 2426   | <0.0005 |
| CARBON TETRACHLORIDE MG/L     | 2982   | <0.0005 |
| CHLOROBENZENE MG/L            | 2989   | <0.0005 |
| CHLOROETHANE MG/L             | 2216   | <0.0005 |
| CHLOROFORM MG/L               | 2941   | 0.003   |
| CHLOROMETHANE MG/L            | 2210   | <0.0005 |
| 2-CHLOROTOLUENE MG/L          | 2965   | <0.0005 |
| 4-CHLOROTOLUENE MG/L          | 2966   | <0.0005 |
| DIBROMOCHLOROMETHANE MG/L     | 2944   | 0.005   |
| DIBROMOMETHANE MG/L           | 2408   | <0.0005 |
| 1,2-DICHLOROBENZENE MG/L      | 2968   | <0.0005 |
| 1,3-DICHLOROBENZENE MG/L      | 2967   | <0.0005 |
| 1,4-DICHLOROBENZENE MG/L      | 2969   | <0.0005 |
| DICHLORODIFLUOROMETHANE MG/L  | 2212   | <0.0005 |
| 1,1-DICHLOROETHANE MG/L       | 2978   | <0.0005 |
| 1,2-DICHLOROETHANE MG/L       | 2980   | <0.0005 |
| CIS-1,2-DICHLOROETHENE MG/L   | 2380   | <0.0005 |
| TRANS-1,2-DICHLOROETHENE MG/L | 2979   | <0.0005 |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0205920396  
 CHARGE NUMBER : LUS  
 COLLECTED BY : D PAYNE  
 COUNTY : EDGEFIELD  
 SAMPLE DESCRIPTION : SCURRY RESIDENCE-WELL

WEDNESDAY FEBRUARY 26TH, 1992  
 RELEASE DATE : 02/26/92 14:44:44  
 DT COLLECTED : 02/05/92 13:00:00  
 SAMPLE MEDIUM : WATER  
 STATION CODE :

ANALYSIS

STORET RESULT

PAGE 2

| ANALYSIS                       | STORET | RESULT  |
|--------------------------------|--------|---------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977   | <0.0005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983   | <0.0005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412   | <0.0005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416   | <0.0005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410   | <0.0005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228   | <0.0005 |
| ETHYLBENZENE MG/L              | 2992   | <0.0005 |
| HEXACHLOROBUTADIENE MG/L       | 2246   | <0.0005 |
| ISOPROPYLBENZENE MG/L          | 2994   | <0.0005 |
| P-ISOPROPYLTOLUENE MG/L        | 2030   | <0.0005 |
| METHYLENE CHLORIDE MG/L        | 2964   | <0.0005 |
| NAPHTHALENE MG/L               | 2248   | <0.0005 |
| N-PROPYLBENZENE MG/L           | 2998   | <0.0005 |
| STYRENE MG/L                   | 2996   | <0.0005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986   | <0.0005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988   | <0.0005 |
| TETRACHLOROETHENE MG/L         | 2987   | <0.0005 |
| TOLUENE MG/L                   | 2991   | 0.002   |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420   | <0.0005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378   | <0.0005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981   | <0.0005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985   | <0.0005 |
| TRICHLOROETHYLENE MG/L         | 2984   | <0.0005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218   | <0.0005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414   | <0.0005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418   | <0.0005 |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424   | <0.0005 |

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\* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
\* ANALYTICAL SERVICES DIVISION LABORATORY REPORT  
\*\*\*\*\*

SAMPLE NUMBER : 0205920396 MEDNESDAY FEBRUARY 26TH, 1992  
CHARGE NUMBER : LUS RELEASE DATE : 02/26/92 14:44:44  
COLLECTED BY : D PAYNE DT COLLECTED : 02/05/92 13:00:00  
COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
SAMPLE DESCRIPTION : SCURRY RESIDENCE-WELL STATION CODE :

| ANALYSIS                         | STORET | RESULT  |
|----------------------------------|--------|---------|
| VINYL CHLORIDE MG/L              | 2976   | <0.0005 |
| O-XYLENE MG/L                    | 2997   | <0.0005 |
| N-XYLENE MG/L                    | 2995   | <0.0005 |
| P-XYLENE MG/L                    | 2999   | <0.0005 |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931   | <0.0005 |
| 1,2-DIBROMOETHANE MG/L           | 2946   | <0.0005 |

COMMENTS:



REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 0205920398

Charge Code: L U S

Collected By: DAVID PAYNE

System No.: \_\_\_\_\_

County: EDGEFIELD

Date Collected: 9 2 / 0 2 / 0 5

Military Time Collected: 1 3 0 0

SAMPLE DESCRIPTION:

Source ID: \_\_\_\_\_

Sample Type:  C  P  V  
 D  R   
 F  S  
 M  W

Location: SCURRY RESIDENCE - FIELD BLANK

System Name: SOR 0396 + 0397

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

- Base-Neutral / Acid Extractables (Investigation)
- Controlled Fluoridation (Routine)
- Herbicides (Investigation)
- Hydrocarbons (Investigation)
- Nitrate (Routine)
- Pesticides (Investigation)
- Private Routine
- Public Complete (Investigation)
- Public Complete (New Source)
- Public Complete (Routine)
- Public Complete + Organics (Routine)
- Trihalomethanes (Routine)
- Volatile Organic Compounds (Investigation)
- Volatile Organic Compounds (Routine - Regulated Compounds Only)
- Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
- Other: \_\_\_\_\_

B. INDIVIDUAL ANALYSES:

- Alkalinity
- Aluminum
- Ammonia
- Arsenic
- Barium
- Cadmium
- Calcium
- Chloride
- Chromium
- Color
- Copper
- Cyanide
- Fluoride
- Hardness
- Hydrogen Sulfide
- Iron
- Lead
- MBAS
- Magnesium
- Manganese
- Mercury
- Nickel
- Nitrate
- Nitrite
- Oil & Grease
- pH
- Phenol
- Phosphorus
- Potassium
- Silver
- Sodium
- Sulfate
- Total Dissolved Solids
- Total Organic Carbon
- Total Solids
- Turbidity
- Zinc
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l  
 Turbidity \_\_\_\_\_ N.T.U.  
 Color \_\_\_\_\_ C.U.  
 pH \_\_\_\_\_  
 Alkalinity \_\_\_\_\_ mg/l  
 Other: \_\_\_\_\_  
 \_\_\_\_\_ mg/l

COMMENTS:

SEND RESULTS TO BOB FALLER GROUND-WATER PROT. STATE PARK BUILDING # 16

RECEIVED:

(Regional) \_\_\_\_\_  
 By \_\_\_\_\_  
 (Central) 021 05 92  
 By KAC

RELEASED:

(Regional) \_\_\_\_\_  
 By \_\_\_\_\_  
 (Central) 021 26 92  
 By TCK

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0205920398 WEDNESDAY FEBRUARY 26TH, 1992  
 CHARGE NUMBER : LUS RELEASE DATE : 02/26/92 14:44:44  
 COLLECTED BY : D PAYNE DT COLLECTED : 02/05/92 13:00:00  
 COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
 SAMPLE DESCRIPTION : FLD BLK FOR 0396 & 0397 STATION CODE :

ANALYSIS

STORET RESULT

| ANALYSIS                      | STORET | RESULT  |
|-------------------------------|--------|---------|
| BENZENE MG/L                  | 2990   | <0.0005 |
| BROMOBENZENE MG/L             | 2993   | <0.0005 |
| BROMOCHLOROMETHANE MG/L       | 2430   | <0.0005 |
| BROMODICHLOROMETHANE MG/L     | 2943   | <0.0005 |
| BROMOFORM MG/L                | 2942   | <0.0005 |
| BROMOMETHANE MG/L             | 2214   | <0.0005 |
| N-BUTYLBENZENE MG/L           | 2422   | <0.0005 |
| SEC-BUTYLBENZENE MG/L         | 2428   | <0.0005 |
| TERT-BUTYLBENZENE MG/L        | 2426   | <0.0005 |
| CARBON TETRACHLORIDE MG/L     | 2982   | <0.0005 |
| CHLOROBENZENE MG/L            | 2989   | <0.0005 |
| CHLOROETHANE MG/L             | 2216   | <0.0005 |
| CHLOROFORM MG/L               | 2941   | <0.0005 |
| CHLOROMETHANE MG/L            | 2210   | <0.0005 |
| 2-CHLOROTOLUENE MG/L          | 2965   | <0.0005 |
| 4-CHLOROTOLUENE MG/L          | 2966   | <0.0005 |
| DIBROMOCHLOROMETHANE MG/L     | 2944   | <0.0005 |
| DIBROMOMETHANE MG/L           | 2408   | <0.0005 |
| 1,2-DICHLOROBENZENE MG/L      | 2968   | <0.0005 |
| 1,3-DICHLOROBENZENE MG/L      | 2967   | <0.0005 |
| 1,4-DICHLOROBENZENE MG/L      | 2969   | <0.0005 |
| DICHLORODIFLUOROMETHANE MG/L  | 2212   | <0.0005 |
| 1,1-DICHLOROETHANE MG/L       | 2978   | <0.0005 |
| 1,2-DICHLOROETHANE MG/L       | 2980   | <0.0005 |
| CIS-1,2-DICHLOROETHENE MG/L   | 2380   | <0.0005 |
| TRANS-1,2-DICHLOROETHENE MG/L | 2979   | <0.0005 |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0205920398 WEDNESDAY FEBRUARY 26TH, 1992  
 CHARGE NUMBER : LUS RELEASE DATE : 02/26/92 14:44:44  
 COLLECTED BY : D PAYNE DT COLLECTED : 02/05/92 13:00:00  
 COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
 SAMPLE DESCRIPTION : FLD BLK FOR 0396 & 0397 STATION CODE :

ANALYSIS

STORET RESULT

PAGE 2

|                                |      |         |
|--------------------------------|------|---------|
| 1,1-DICHLOROETHYLENE MG/L      | 2977 | <0.0005 |
| 1,2-DICHLOROPROPANE MG/L       | 2983 | <0.0005 |
| 1,3-DICHLOROPROPANE MG/L       | 2412 | <0.0005 |
| 2,2-DICHLOROPROPANE MG/L       | 2416 | <0.0005 |
| 1,1-DICHLOROPROPENE MG/L       | 2410 | <0.0005 |
| 1,3-DICHLOROPROPENE MG/L       | 2228 | <0.0005 |
| ETHYLBENZENE MG/L              | 2992 | <0.0005 |
| HEXACHLOROBUTADIENE MG/L       | 2246 | <0.0005 |
| ISOPROPYLBENZENE MG/L          | 2994 | <0.0005 |
| P-ISOPROPYLTOLUENE MG/L        | 2030 | <0.0005 |
| METHYLENE CHLORIDE MG/L        | 2964 | <0.0005 |
| NAPHTHALENE MG/L               | 2248 | <0.0005 |
| N-PROPYLBENZENE MG/L           | 2998 | <0.0005 |
| STYRENE MG/L                   | 2996 | <0.0005 |
| 1,1,1,2-TETRACHLOROETHANE MG/L | 2986 | <0.0005 |
| 1,1,2,2-TETRACHLOROETHANE MG/L | 2988 | <0.0005 |
| TETRACHLOROETHENE MG/L         | 2987 | <0.0005 |
| TOLUENE MG/L                   | 2991 | <0.0005 |
| 1,2,3-TRICHLOROBENZENE MG/L    | 2420 | <0.0005 |
| 1,2,4-TRICHLOROBENZENE MG/L    | 2378 | <0.0005 |
| 1,1,1-TRICHLOROETHANE MG/L     | 2981 | <0.0005 |
| 1,1,2-TRICHLOROETHANE MG/L     | 2985 | <0.0005 |
| TRICHLOROETHYLENE MG/L         | 2984 | <0.0005 |
| TRICHLOROFLUOROMETHANE MG/L    | 2218 | <0.0005 |
| 1,2,3-TRICHLOROPROPANE MG/L    | 2414 | <0.0005 |
| 1,2,4-TRIMETHYLBENZENE MG/L    | 2418 | <0.0005 |
| 1,3,5-TRIMETHYLBENZENE MG/L    | 2424 | <0.0005 |

\*\*\*\*\*  
 \* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
 \* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
 \*\*\*\*\*

SAMPLE NUMBER : 0205920398 WEDNESDAY FEBRUARY 26TH, 1992  
 CHARGE NUMBER : LUS RELEASE DATE : 02/26/92 14:44:44  
 COLLECTED BY : D PAYNE DT COLLECTED : 02/05/92 13:00:00  
 COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
 SAMPLE DESCRIPTION : FLD BLK FOR 0396 & 0397 STATION CODE :

| ANALYSIS                         | STORET | RESULT  | PAGE 3 |
|----------------------------------|--------|---------|--------|
| VINYL CHLORIDE MG/L              | 2976   | <0.0005 |        |
| O-XYLENE MG/L                    | 2997   | <0.0005 |        |
| M-XYLENE MG/L                    | 2995   | <0.0005 |        |
| P-XYLENE MG/L                    | 2999   | <0.0005 |        |
| 1,2-DIBROMO-3-CHLOROPROPANE MG/L | 2931   | <0.0005 |        |
| 1,2-DIBROMOETHANE MG/L           | 2946   | <0.0005 |        |

COMMENTS:

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 0205920317 Charge Code: LUS

Collected By: DAVID PAYNE

System No.:

County: EDGEFIELD

Date Collected: 9/2/02/05

SAMPLE DESCRIPTION:

Military Time Collected: 1300

Source ID:

Sample Type: C, D, F, M

Location: SCURRY RESIDENCE - HOUSE



System Name:

Location Code:

Groundwater Protection Division

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

B. INDIVIDUAL ANALYSES:

- Base-Neutral / Acid Extractables (Investigation)
Controlled Fluoridation (Routine)
Herbicides (Investigation)
Hydrocarbons (Investigation)
Nitrate (Routine)
Pesticides (Investigation)
Private Routine
Public Complete (Investigation)
Public Complete (New Source)
Public Complete (Routine)
Public Complete + Organics (Routine)
Trihalomethanes (Routine)
[X] Volatile Organic Compounds (Investigation)
Volatile Organic Compounds (Routine - Regulated Compounds Only)
Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
Other:

- Alkalinity
Aluminum
Ammonia
Arsenic
Barium
Cadmium
Calcium
Chloride
Chromium
Color
Copper
Cyanide
Fluoride
Hardness
Hydrogen Sulfide
Iron
Lead
MBAS
Magnesium
Manganese
Mercury
Nickel
Nitrate
Nitrite
Oil & Grease
pH
Phenol
Phosphorus
Potassium
Silver
Sodium
Sulfate
Total Dissolved Solids
Total Organic Carbon
Total Solids
Turbidity
Zinc
Other:
Other:

DISTRICT ANALYSES:

COMMENTS:

RECEIVED:

TDS mg/l
Turbidity N.T.U.
Color C.U.
pH
Alkalinity mg/l
Other: mg/l

SEND RESULTS TO BOB FALLER GROUND-WATER PROTECTION DIVISION STATE PARK BUILDING 16

(Regional)
By
(Central) 02105192 By KAC
RELEASED:
(Regional)
By
(Central) 0212692 By TCK

KB

## MEMORANDUM

TO: Bob Hutchinson  
Groundwater Protection  
Columbia

FROM: Nichelle Allen  
Upper Savannah

DATE: October 14, 1993

SUBJECT: situation at an old  
truck stop on Hwy 378 in  
Edgefield County

Attached please find information regarding a situation brought to my attention concerning hydrocarbon contaminated wells and an old Truck stop on Hwy 378 which is now being used as a convenience store (is operating with no water)

cc: Scott McLinnis; Groundwater Protection, Drinking Water

John Kneese; Groundwater Protection, UST section  
District Facility file  
Reading File

RECEIVED

OCT 20 1993

Groundwater Protection  
Division

MEMORANDUM

CONTINUATION PAGE # 2

TO: Bob Hutchinson

- 1) late 1950's: diner at this truck stop was forced to close b/c of gasoline contamination in the well
- 2) mid 1970's: at least two property owners (Scurry and Anderson) accross street from truck stop experienced well contamination, Anderson well was sampled and contained 100% hydrocarbon, new well drilled
- 3) 1990: Scurry well sampled, contaminated and new well drilled; old well later was resampled and found to be clear
- 4) 1990: unsure of tank owner, an 11/90 letter from Paul Bergstrand states DHEC considers Wilkerson Fuel of Rock Hill, SC to be tank owners.  
land owner is a Mr. Jolly Owdom of Edgefield
- 5) 1993: Convenience store operator contacts Reggie Massey of Upper Savannah, has no water wants to use an existing well on the old truck stop property where convenience store is now located

MEMORANDUM

CONTINUATION PAGE # 3

TO: Bob Hutchinson

6) 1993: Reggie Massey visited site to examine above mentioned well. States that when opened well house  $\approx$  300' behind store petroleum vapor was very strong, baled the well, water smelled sour and stagnant and he noticed at least  $\frac{1}{4}$  of an inch of some liquid floating on top of the water.

7) What is the next step?

\* Scurry/Anderson Well property is already a Trust Fund site (#15972, Scott McInnis), but the old truck stop site hasn't been examined to my knowledge.

\* the UST's are not there any longer, were removed  $\approx$  within last seven years



**Memorandum**

**To:** Bob Hutchinson  
**From:** Chuck Hightower *CH*  
**Date:** September 12, 2002  
**Re:** Scurry Well Contamination

In the latter part of 1974, District Services was informed of a contaminated drinking water well located across the road from the 378 Truck Stop. The UST Program took the project and assigned it tracking number 15972. Later, a determination was made that the contamination most likely came from leaking underground storage tanks located at the truck stop, permit number 07960. The project was closed out under 15972 but never entered nor worked under 07960. The error has now been realized and an amnesty release has been posted against 07960. As soon as the project is assigned to the Corrective Action Division, I recommend that the drinking water of the nearby residents be examined.

UST Docket 186 T

MEMORANDUM

To: File *SM*

From: Scott McInnis, Hydrogeologist  
Federal Section

Re: Scurry Well, Site # 15972  
Identification of Source for Petroleum Contamination  
Edgefield County

Date: July 8, 1996

Sampling activities performed by the Federal Section have identified Site # 07960 as the most likely source of contamination. This site is located across the U.S. Highway 378 from the impacted water supply wells.

A ground-water sample was collected from a monitoring well MW-1 at Site # 07960 (378 Truck Stop). Analysis of this sample detected Benzene, Toluene, Ethylbenzene and Xylene at 4,010 ug/l, 1,440 ug/l, 166 ug/l and 5,490 ug/l, respectively.

This site is being transferred to the Technical Section.

cc: Joanne Cooper, Technical Section

wam/15972

07960  
No PM, no tanks  
Tanks RG 11/11  
RLS RPT 10/74 15972  
10-3-74



RIGHT OF ENTRY

I, Jolly Owdom, certify that I am the legal owner/authorized representative for (owner) of the property at 12 mi West SALUDA, Hwy 378. I have either witnessed the planned location(s) on site or have been provided with a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

1) Drilling an exploratory boring, or installation of a temporary well or piezometer. This work will be properly abandoned upon completion, and no permanent effects shall remain on site.

NAME (Please Print):

SIGNATURE:

WITNESS:

DATE: Mo Day Year

2) Installing 2 monitoring/recovery well(s). I understand that these wells will be a permanent fixture of the property. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print):

SIGNATURE:

WITNESS:

DATE: 10 Mo 25 Day 1993 Year

Sample Results

Date Drilled 10-27-93

|      | Total Depth | Water level |
|------|-------------|-------------|
| MW-1 | 45.0'       | 25.85'      |
| MW-2 | 45.6'       | 25.60'      |

• New Drinking water well

• Contaminated Well

Scunny Residence

← To Saluda

Hwy. 378

To Edge Field →

• MW-2

Former 378 Truck STOP STORE

MW-1

UST BASIN



\*\*\*\*\*  
\* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
\* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
\*\*\*\*\*

SAMPLE NUMBER : 1027930228 TUESDAY NOVEMBER 16TH, 1993  
CHARGE NUMBER : LUS RELEASE DATE : 11/16/93 12:28:51  
COLLECTED BY : IND DT COLLECTED : 10/27/93 12:00:00  
COUNTY : EDGEFIELD SAMPLE MEDIUM : WATER  
SAMPLE DESCRIPTION : SCURRY WELL CONT/ 378 STATION CODE :  
SAMPLE TYPE :

| ANALYSIS          | STORET | RESULT |
|-------------------|--------|--------|
| BENZENE UG/L      |        | 135    |
| TOLUENE UG/L      |        | 54.1   |
| ETHYLBENZENE UG/L |        | 13.7   |
| XYLENE UG/L       |        | 54.7   |

MW-2

COMMENTS:

\*\*\*\*\*  
\* SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL \*  
\* ANALYTICAL SERVICES DIVISION LABORATORY REPORT \*  
\*\*\*\*\*

SAMPLE NUMBER : 1027930229  
CHARGE NUMBER : LUS  
COLLECTED BY : IND  
COUNTY : EDGEFIELD  
SAMPLE DESCRIPTION : BLANK FOR 0227-0228  
SAMPLE TYPE :

TUESDAY NOVEMBER 16TH, 1993  
RELEASE DATE : 11/16/93 12:28:52  
DT COLLECTED : 10/27/93 11:45:00  
SAMPLE MEDIUM : WATER  
STATION CODE :

ANALYSIS

STORET RESULT

---

|                   |      |
|-------------------|------|
| BENZENE UG/L      | <2.0 |
| TOLUENE UG/L      | <2.0 |
| ETHYLBENZENE UG/L | <2.0 |
| XYLENE UG/L       | <2.0 |

COMMENTS:

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 1027930227

Charge Code: L V S

Collected By: ALLEN WILLIAMS / GORE WITH COMBE

System No.: \_\_\_\_\_

County: EDGEFIELD

Date Collected: 10 / 27 / 93

SAMPLE DESCRIPTION:

Military Time Collected: 1 1 4 5

Source ID: \_\_\_\_\_

Sample Type:  C  P  V  
 D  R  \_\_\_\_\_  
 F  S  
 M  W

Location: SCURRY WELL CONST. / 378 TRUCK

System Name: MW-1

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

B. INDIVIDUAL ANALYSES:

- Base-Neutral / Acid Extractables (Investigation)
- Controlled Fluoridation (Routine)
- Herbicides (Investigation)
- Hydrocarbons (Investigation)
- Nitrate (Routine)
- Pesticides (Investigation)
- Private Routine
- Public Complete (Investigation)
- Public Complete (New Source)
- Public Complete (Routine)
- Public Complete + Organics (Routine)
- Trihalomethanes (Routine)
- Volatile Organic Compounds (Investigation)
- Volatile Organic Compounds (Routine - Regulated Compounds Only)
- Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
- Other: BTEX

Groundwater Protection Division

NOV 17 1993

RECEIVED

- Alkalinity
- Aluminum
- Ammonia
- Arsenic
- Barium
- Cadmium
- Calcium
- Chloride
- Chromium
- Color
- Copper
- Cyanide
- Fluoride
- Hardness
- Hydrogen Sulfide
- Iron
- Lead
- MBAS
- Magnesium
- Manganese
- Mercury
- Nickel
- Nitrate
- Nitrite
- Oil & Grease
- pH
- Phenol
- Phosphorus
- Potassium
- Silver
- Sodium
- Sulfate
- Total Dissolved Solids
- Total Organic Carbon
- Total Solids
- Turbidity
- Zinc
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l  
Turbidity \_\_\_\_\_ N.T.U.  
Color \_\_\_\_\_ C.U.  
pH \_\_\_\_\_  
Alkalinity \_\_\_\_\_ mg/l  
Other: \_\_\_\_\_  
\_\_\_\_\_ mg/l

COMMENTS:

Results to  
Allen Williams  
GWPD

RECEIVED:

(Regional) \_\_\_/\_\_\_/\_\_\_  
By \_\_\_\_\_  
(Central) 10 / 27 / 93  
By CC

RELEASED:

(Regional) \_\_\_/\_\_\_/\_\_\_  
By \_\_\_\_\_  
(Central) 11 / 16 / 93  
By TCK

CC



LUS

S.C. Department of Health and Environmental Control

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 1027930228  
Charge Code: LUS

Collected By: ALLEN WILLIAMS / GREG WITHYCOMBE

System No.: \_\_\_\_\_

County: EDGEFIELD

Date Collected: 10/27/93

SAMPLE DESCRIPTION:

Military Time Collected: 1200

Source ID: \_\_\_\_\_

Sample Type:  C  P  V  
 D  R  \_\_\_\_\_  
 F  S  
 M  W

Location: SCURRY WELL CONT / 370 TRUCK

System Name: MW-2

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

- Base-Neutral / Acid Extractables (Investigation)
- Controlled Fluoridation (Routine)
- Herbicides (Investigation)
- Hydrocarbons (Investigation)
- Nitrate (Routine)
- Pesticides (Investigation)
- Private Routine
- Public Complete (Investigation)
- Public Complete (New Source)
- Public Complete (Routine)
- Public Complete + Organics (Routine)
- Trihalomethanes (Routine)
- Volatile Organic Compounds (Investigation)
- Volatile Organic Compounds (Routine - Regulated Compounds Only)
- Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)

Groundwater Protection Division

NOV 17, 1993

RECEIVED

B. INDIVIDUAL ANALYSES:

- Alkalinity
- Aluminum
- Ammonia
- Arsenic
- Barium
- Cadmium
- Calcium
- Chloride
- Chromium
- Color
- Copper
- Cyanide
- Fluoride
- Hardness
- Hydrogen Sulfide
- Iron
- Lead
- MBAS
- Magnesium
- Manganese
- Mercury
- Nickel
- Nitrate
- Nitrite
- Oil & Grease
- pH
- Phenol
- Phosphorus
- Potassium
- Silver
- Sodium
- Sulfate
- Total Dissolved Solids
- Total Organic Carbon
- Total Solids
- Turbidity
- Zinc
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

Other: BTEX

DISTRICT ANALYSES:

TDS \_\_\_\_\_ mg/l  
Turbidity \_\_\_\_\_ N.T.U.  
Color \_\_\_\_\_ C.U.  
pH \_\_\_\_\_  
Alkalinity \_\_\_\_\_ mg/l  
Other: \_\_\_\_\_  
\_\_\_\_\_ mg/l

COMMENTS:

RESULTS TO  
ALLEN WILLIAMS  
GWRD

RECEIVED:

(Regional) \_\_\_/\_\_\_/\_\_\_  
By \_\_\_\_\_  
(Central) 10/27/93  
By CC

RELEASED:

(Regional) \_\_\_/\_\_\_/\_\_\_  
By \_\_\_\_\_  
(Central) 11/16/93  
By TCK

al

LUS

S.C. Department of Health and Environmental Control

REQUEST FOR CHEMICAL AND PHYSICAL ANALYSIS OF DRINKING WATER

Sample Number: 1027930229

Charge Code: LUS

Collected By: ALLEN WILLIAMS / GREG WILLYCOMBE

System No.: \_\_\_\_\_

County: EDGEFIELD

Date Collected: 10/27/93

SAMPLE DESCRIPTION:

Source ID: \_\_\_\_\_

Military Time Collected: 1145

Location: SCURRY WELL CONT / 378 TRUCK

Sample Type: [ ] C [ ] P [ ] V [ ] D [ ] R [ ] [ ] F [ ] S [ ] M [ ] W

System Name: FIELD BLANK

Location Code: \_\_\_\_\_

CHECK ANALYSIS GROUP (A) OR INDIVIDUAL ANALYSES (B) REQUESTED

A. ANALYSIS GROUP:

- [ ] Base-Neutral / Acid Extractables (Investigation)
[ ] Controlled Fluoridation (Routine)
[ ] Herbicides (Investigation)
[ ] Hydrocarbons (Investigation)
[ ] Nitrate (Routine)
[ ] Pesticides (Investigation)
[ ] Private Routine
[ ] Public Complete (Investigation)
[ ] Public Complete (New Source)
[ ] Public Complete (Routine)
[ ] Public Complete + Organics (Routine)
[ ] Trihalomethanes (Routine)
[ ] Volatile Organic Compounds (Investigation)
[ ] Volatile Organic Compounds (Routine - Regulated Compounds Only)
[ ] Volatile Organic Compounds (Routine - Regulated and Unregulated Compounds)
[X] Other: BTEX

RECEIVED NOV 17, 1993 Groundwater Protection Division

B. INDIVIDUAL ANALYSES:

- [ ] Alkalinity [ ] Nitrite
[ ] Aluminum [ ] Oil & Grease
[ ] Ammonia [ ] pH
[ ] Arsenic [ ] Phenol
[ ] Barium [ ] Phosphorus
[ ] Cadmium [ ] Potassium
[ ] Calcium [ ] Silver
[ ] Chloride [ ] Sodium
[ ] Chromium [ ] Sulfate
[ ] Color [ ] Total Dissolved Solids
[ ] Copper [ ] Total Organic Carbon
[ ] Cyanide [ ] Total Solids
[ ] Fluoride [ ] Turbidity
[ ] Hardness [ ] Zinc
[ ] Hydrogen Sulfide [ ] Other:
[ ] Iron
[ ] Lead
[ ] MBAS
[ ] Magnesium
[ ] Manganese
[ ] Mercury
[ ] Nickel
[ ] Nitrate

DISTRICT ANALYSES: TDS mg/l, Turbidity N.T.U., Color C.U., pH, Alkalinity mg/l, Other: mg/l

COMMENTS: RESULTS TO ALLEN WILLIAMS GWPD Blank for 0227-0228

RECEIVED: (Regional) By 10/27/93 CC, RELEASED: (Regional) By 11/16/93 TCK

CC

**From:** Laura J. Pace  
**To:** Lipkin, Richard M.  
**Date:** 9/12/02 3:50PM  
**Subject:** Fwd: 15972 & 07960

Rick, site 15972 has an invoice posted against it (invoice #12/27/91 for \$4,815.00). It does not have a cost agreement so there is nothing I can change in EFIS to move the invoice from site 15972 to site 07960. Can you move this for me.

Thanks, Laura

**CC:** Anderson, Connie J.; Dorsey, Robertha

UST Docket 1271

### Connie J. Anderson - Site Number 15972

---

**From:** Travis M. Williams  
**To:** Anderson, Connie J.  
**Date:** 9/13/02 1:34 PM  
**Subject:** Site Number 15972

---

This is the Scurry Well Site. The source of the contamination for this well is thought to be from site # 07960. To get a sense of what exactly is going on, I'm going to visit the site to see if the Scurry Well is still present and to see if any monitoring wells are present on site 07960. If wells are present, I will sample them to see what kind of concentrations we have. Just wanted to let you know what was going to be done. Site 15972 can be changed to read only anytime. Thanks.

Travis

|  |          |        |       |
|--|----------|--------|-------|
|  | 11/13/02 | DTW    | TD    |
|  | MW-2     | 28.11' | 37.8' |
|  | MW-1     | 26'    | 41.1' |

Where gas station used to be ← Strong Tabernacle  
PH Church

731 HWY 378

LIST Docket 128 I

# FIELD ACTIVITY WORKSHEET ORDER

**Date of Request:** September 30, 2002

**Type of Request:**

(Please indicate your request with a check mark)

|           |                    |                                     |
|-----------|--------------------|-------------------------------------|
| Emergency | (<2 Working Days)  | <input checked="" type="checkbox"/> |
| Specific  | (1-5 Working Days) | <input checked="" type="checkbox"/> |
| Routine   | (10 Working Days)  | <input type="checkbox"/>            |

Please specify the type of work to be completed:

**Facility Name:** 378 Truck Stop  
**Permit Number:** 07960  
**Project Manager:** Travis Williams  
**County:** Saluda

*Highway 378 West  
Saluda, S.C.*

(Field Staff Only)

|  |
|--|
| <b>Date Field Activity Completed:</b> _____      |
| <b>Completed by Field Staff:</b> _____           |
| <b>Date Field Notes Entered into EFIS:</b> _____ |

Field Staff Comments:

---

---

---

**REMEMBER TO ESTABLISH COST PROPOSALS**

PACE CA#: 17332 GRI CA#: \_\_\_\_\_

PALMETTO ENV GROUP CA#: \_\_\_\_\_

Fill out back of this form. Photocopy, attach a completed CP cover for each CP. Thank you very much!

UST Docket 129T



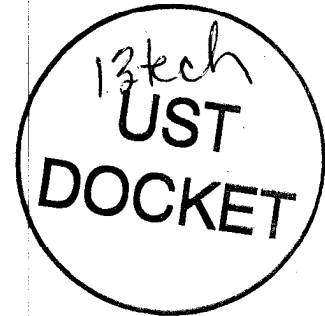
C. Earl Hunter, Commissioner

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

NOV 12 2010

MR FRANK WILKERSON  
WILKERSON FUEL COMPANY INC  
P O BOX 2835  
ROCK HILL SC 29732-4835

Re: Granular Activated Carbon (GAC) Unit Installation  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit # 07960, Cost Agreement # 40512  
Release reported October 3, 1974  
Water Supply Well sampled on November 4, 2010  
Edgefield County



Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control sampled Sidney Gordon's water supply well at 724 Hwy 378 East in Edgefield on November 4, 2010. 1,2-Dichloroethane (1,2-DCA) was detected above its risk-based screening level (RBSL) in the water sample. Other low detections of petroleum chemicals of concern (CoC) were also detected in the water; however, their concentrations were well below their RBSLs. A copy of the laboratory analysis is enclosed for your information. The presence of 1,2-DCA requires that a Granular Active Carbon Unit (GAC) be installed and the water supply well is to be re-sampled immediately after its installation. **A report providing proof of the GAC unit is installed, and laboratory analytical results before and after the GAC for the water supply well is due on or before November 26, 2010.**

Environmental Compliance Services, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

On all correspondence concerning this site, please reference UST permit # 07960. If there are any questions concerning this project, please contact me at (803) 896-6633, by fax at (803) 896-6245, or e-mail me at [ridglect@dhec.sc.gov](mailto:ridglect@dhec.sc.gov).

Sincerely,

Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Division  
Bureau of Land and Waste Management

enc: Pace Laboratory Analytical Results dated November 8, 2010  
Approved Cost Agreement (ACA)

cc: Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/enc)  
Technical File (w/ACA)

# Approved Cost Agreement 40512

Facility: 07960 378 TRUCK STOP

RIDGLECT

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>   | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u>   |
|-----------------------------------|-------------------|---------------------------|------------------|-------------------|-----------------|
| 04 MOB/DEMOB                      |                   | B PERSONNEL               | 1.0000           | 290.00            | 290.00          |
| 10 SAMPLE COLLECTION              |                   | C WATER SUPPLY            | 2.0000           | 25.00             | 50.00           |
| 11 ANALYSES                       | GW GROUNDWATER    | A BTEX+NAPTH+MTBE         | 2.0000           | 100.00            | 200.00          |
|                                   |                   | BB 1,2-DCA                | 2.0000           | 10.75             | 21.50           |
|                                   |                   | P 8 OXYGENATES            | 2.0000           | 85.00             | 170.00          |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PCT PERCENT               | 0.1500           | 3,231.50          | 484.73          |
| 24 GAC SYSTEM                     |                   | A NEW SYSTEM INSTALLATION | 1.0000           | 2,500.00          | 2,500.00        |
| <b>Total Amount</b>               |                   |                           |                  |                   | <b>3,716.23</b> |



2600 Bull Street  
Columbia, SC 29201-1708

**UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT**

Phone (800) 826-5435 Fax (803) 896-6245

**SHERRI HOWARD  
PACE ANALYTICAL SERVICES  
9800 KINCEY AVE STE 100  
HUNTERSVILLE NC 28078**

*Do not mail.  
Sampling already  
performed as  
verbal approval  
was given  
on 11-14-02  
T.M.*

Re: Laboratory Analyses  
Bid # SB-19780-6/11/02-EMW, PO # 416276

Dear Ms. Howard:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #416276 on the appropriate invoice submitted for payment against the facility. SCDHEC personnel will perform the sampling on November 14, 2002.

| UST Permit # | County | Analyses-Groundwater      | CA #    | Bottles (Y/N) | Date Needed |
|--------------|--------|---------------------------|---------|---------------|-------------|
| 07960        | Saluda | 4-BTEX, Naph, MTBE (8260) | 17332:P | Y             | Routine     |

If you have any questions or need further assistance, please contact me at (803) 896-6669 or (800) 826-5435 (within SC only).

Sincerely,

Travis Williams, Hydrogeologist  
Owner/Operator Assistance Section  
Assessment & Corrective Action Division

Enc: Approved Cost Agreement

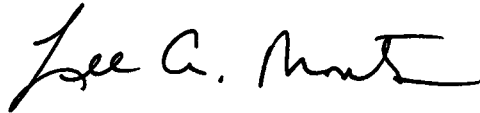
cc: Debra Thoma, State Lead & Field Services  
Technical/Read File

UST District 130 I



To: Financial File for UST Permit #07960

From: Lee A. Monts, Manager  
Owner/Operator Assistance Section

A handwritten signature in black ink that reads "Lee A. Monts". The signature is written in a cursive style with a large initial "L" and a long horizontal stroke at the end.

Date: November 27, 2002

Verbal approval was given to PACE Analytical Services on November 14, 2002 to analyze four groundwater samples for BTEX, Napthalene, and MtBE under the terms and conditions of Bid #SB-19780-6/11/02-EMW. Sampling was performed by UST Program staff to ensure that a private drinking water well had not been impacted by a petroleum release and to obtain current data regarding the release. The tested drinking water well was a replacement well that was installed several years ago utilizing Federal Trust money at UST Permit #15972. The original well had been impacted by the petroleum release. Site #07960 was subsequently determined to be the source of the petroleum contamination. As the well had not been sampled in several years, it was crucial to obtain current analytical data to make sure there is no current impact to human health.

# Approved Cost Agreement 32

Facility: 07960 378 TRUCK STOP

WILLIATM

PO Number: 416276-233

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u> | <u>Qty / Pct</u>    | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|-------------------------|---------------------|-------------------|---------------|
| 11 ANALYSES               | GW GROUNDWATER    | A BTEX+NAPTH+MTBE       | 4.0000              | 30.00             | 120.00        |
|                           |                   |                         | <b>Total Amount</b> |                   | <b>120.00</b> |



**Pace Analytical Services, Inc.**  
9800 Kinsey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

November 22, 2002

**RECEIVED**

NOV 25 2002

Underground Storage  
Tank Program

Ms. Debra Thoma  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Lab Project Number: 9238568  
Client Project ID: 378 Truck Stop/07960/17332:P

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel  
Sherri.Stabel@pacelabs.com  
Project Manager

Enclosures

UST Docket 131 T

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627





**Pace Analytical Services, Inc.**  
 9800 Kincsey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

Lab Project Number: 9238568  
 Client Project ID: 378 Truck Stop/07960/17332:P

Lab Sample No: 922639224 Project Sample Number: 9238568-001 Date Collected: 11/13/02 14:15  
 Client Sample ID: MW-1 Matrix: Water Date Received: 11/15/02 17:00

| Parameters                | Results          | Units | Report Limit | DF   | Analyzed       | By  | CAS No.    | Qual | RegLmt |
|---------------------------|------------------|-------|--------------|------|----------------|-----|------------|------|--------|
| <b>GC/MS Volatiles</b>    |                  |       |              |      |                |     |            |      |        |
| GC/MS VOCs by 8260        | Method: EPA 8260 |       |              |      |                |     |            |      |        |
| Benzene                   | 1400             | ug/l  | 250          | 50.0 | 11/21/02 06:29 | RWS | 71-43-2    |      |        |
| Ethylbenzene              | 1000             | ug/l  | 250          | 50.0 | 11/21/02 06:29 | RWS | 100-41-4   |      |        |
| Methyl-tert-butyl ether   | ND               | ug/l  | 5.0          | 1.0  | 11/21/02 06:29 | RWS | 1634-04-4  |      |        |
| Naphthalene               | 230              | ug/l  | 5.0          | 1.0  | 11/21/02 06:29 | RWS | 91-20-3    | 1    |        |
| Toluene                   | 420              | ug/l  | 250          | 50.0 | 11/21/02 06:29 | RWS | 108-88-3   |      |        |
| m&p-Xylene                | 3400             | ug/l  | 500          | 50.0 | 11/21/02 06:29 | RWS |            |      |        |
| o-Xylene                  | 1300             | ug/l  | 250          | 50.0 | 11/21/02 06:29 | RWS | 95-47-6    |      |        |
| Toluene-d8 (S)            | 97               | %     |              | 1.0  | 11/21/02 06:29 | RWS | 2037-26-5  |      |        |
| 4-Bromofluorobenzene (S)  | 164              | %     |              | 1.0  | 11/21/02 06:29 | RWS | 460-00-4   | 2    |        |
| Dibromofluoromethane (S)  | 95               | %     |              | 1.0  | 11/21/02 06:29 | RWS | 1868-53-7  |      |        |
| 1,2-Dichloroethane-d4 (S) | 98               | %     |              | 1.0  | 11/21/02 06:29 | RWS | 17060-07-0 |      |        |

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

### REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 LA Wastewater 04034  
 VA Drinking Water 213  
 FL NELAP E87627



**Pace Analytical Services, Inc.**  
 9800 Kincroy Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

Lab Project Number: 9238568  
 Client Project ID: 378 Truck Stop/07960/17332:P

Lab Sample No: 922639240 Project Sample Number: 9238568-002 Date Collected: 11/13/02 14:00  
 Client Sample ID: MW-2 Matrix: Water Date Received: 11/15/02 17:00

| Parameters                          | Results | Units | Report Limit | DF  | Analyzed       | By  | CAS No.    | Qual | Req/Lmt |
|-------------------------------------|---------|-------|--------------|-----|----------------|-----|------------|------|---------|
| <b>GC/MS Volatiles</b>              |         |       |              |     |                |     |            |      |         |
| GC/MS VOCs by 8260 Method: EPA 8260 |         |       |              |     |                |     |            |      |         |
| Benzene                             | ND      | ug/l  | 5.0          | 1.0 | 11/21/02 18:51 | RWS | 71-43-2    |      |         |
| Ethylbenzene                        | ND      | ug/l  | 5.0          | 1.0 | 11/21/02 18:51 | RWS | 100-41-4   |      |         |
| Methyl-tert-butyl ether             | ND      | ug/l  | 5.0          | 1.0 | 11/21/02 18:51 | RWS | 1634-04-4  |      |         |
| Naphthalene                         | ND      | ug/l  | 5.0          | 1.0 | 11/21/02 18:51 | RWS | 91-20-3    |      |         |
| Toluene                             | ND      | ug/l  | 5.0          | 1.0 | 11/21/02 18:51 | RWS | 108-88-3   |      |         |
| m&p-Xylene                          | ND      | ug/l  | 10.          | 1.0 | 11/21/02 18:51 | RWS |            |      |         |
| o-Xylene                            | ND      | ug/l  | 5.0          | 1.0 | 11/21/02 18:51 | RWS | 95-47-6    |      |         |
| Toluene-d8 (S)                      | 98      | x     |              | 1.0 | 11/21/02 18:51 | RWS | 2037-26-5  |      |         |
| 4-Bromofluorobenzene (S)            | 86      | x     |              | 1.0 | 11/21/02 18:51 | RWS | 460-00-4   |      |         |
| Dibromofluoromethane (S)            | 101     | x     |              | 1.0 | 11/21/02 18:51 | RWS | 1868-53-7  |      |         |
| 1,2-Dichloroethane-d4 (S)           | 103     | x     |              | 1.0 | 11/21/02 18:51 | RWS | 17060-07-0 |      |         |

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

### REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 LA Wastewater 04034  
 VA Drinking Water 213  
 FL NELAP E87627





**Pace Analytical Services, Inc.**  
 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

Lab Project Number: 9238568  
 Client Project ID: 378 Truck Stop/07960/17332:P

Lab Sample No: 922639257 Project Sample Number: 9238568-003 Date Collected: 11/13/02 14:30  
 Client Sample ID: WSW-1 Matrix: Water Date Received: 11/15/02 17:00

| Parameters                | Results          | Units | Report Limit | DF  | Analyzed       | By  | CAS No.    | Qual | ReqLmt |
|---------------------------|------------------|-------|--------------|-----|----------------|-----|------------|------|--------|
| <b>GC/MS Volatiles</b>    |                  |       |              |     |                |     |            |      |        |
| GC/MS VOCs by 8260        | Method: EPA 8260 |       |              |     |                |     |            |      |        |
| Benzene                   | ND               | ug/l  | 5.0          | 1.0 | 11/21/02 07:00 | RWS | 71-43-2    |      |        |
| Ethylbenzene              | ND               | ug/l  | 5.0          | 1.0 | 11/21/02 07:00 | RWS | 100-41-4   |      |        |
| Methyl-tert-butyl ether   | ND               | ug/l  | 5.0          | 1.0 | 11/21/02 07:00 | RWS | 1634-04-4  |      |        |
| Naphthalene               | ND               | ug/l  | 5.0          | 1.0 | 11/21/02 07:00 | RWS | 91-20-3    |      |        |
| Toluene                   | ND               | ug/l  | 5.0          | 1.0 | 11/21/02 07:00 | RWS | 108-88-3   |      |        |
| m&p-Xylene                | ND               | ug/l  | 10.          | 1.0 | 11/21/02 07:00 | RWS |            |      |        |
| o-Xylene                  | ND               | ug/l  | 5.0          | 1.0 | 11/21/02 07:00 | RWS | 95-47-6    |      |        |
| Toluene-d8 (S)            | 101              | μ     |              | 1.0 | 11/21/02 07:00 | RWS | 2037-26-5  |      |        |
| 4-Bromofluorobenzene (S)  | 89               | μ     |              | 1.0 | 11/21/02 07:00 | RWS | 460-00-4   |      |        |
| Dibromofluoromethane (S)  | 100              | μ     |              | 1.0 | 11/21/02 07:00 | RWS | 1868-53-7  |      |        |
| 1,2-Dichloroethane-d4 (S) | 97               | μ     |              | 1.0 | 11/21/02 07:00 | RWS | 17060-07-0 |      |        |

**Laboratory Certification IDs**  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

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**Laboratory Certification IDs**  
 LA Wastewater 04034  
 VA Drinking Water 213  
 FL NELAP E87627





**Pace Analytical Services, Inc.**  
9800 Kincsey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

Lab Project Number: 9238568  
Client Project ID: 378 Truck Stop/07960/17332:P

**PARAMETER FOOTNOTES**

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate
- [1] Compound concentration exceeds the calibration range of the instrument (CLP E-Flag).
- [2] The surrogate and/or spike recovery was outside acceptance limits.

Date: 11/22/02

Page. 4 of 6

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99008

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
 LA Wastewater 04034  
 VA Drinking Water 213  
 FL NELAP E87627





**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**661636**

NOV. 22. 2002 5:10PM PACE ANALYTICAL

**Required Client Information Section A**

Company: SCDHEC / UST Program

Address: 2600 Bull St.  
Columbia SC 29201

Phone: 803-896-6669 Fax: 896-6245

**Required Client Information Section B**

Report To: Debra Thoma

Copy To: \_\_\_\_\_

Invoice To: 4162765

P.O.: D. Thoma

Project Name: 378 Truck Stop

Project Number: 07960 / 17332:P

Page: 1 of 1

**Client Information (Check quote/contract):**

Requested Due Date: TAT Standard 7 Days

\* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

**To Be Completed by Pace Analytical and Client Section C**

Quote Reference: \_\_\_\_\_

Project Manager: \_\_\_\_\_

Project #: 38568

Profile #: \_\_\_\_\_

Requested Analysis: \_\_\_\_\_

| ITEM # | SAMPLE ID | MATRIX CODE | DATE COLLECTED | TIME COLLECTED | # Containers | Preservatives |                                |                  |     |      |   |          | Remarks / Lab ID |          |
|--------|-----------|-------------|----------------|----------------|--------------|---------------|--------------------------------|------------------|-----|------|---|----------|------------------|----------|
|        |           |             |                |                |              | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | Methanol |                  | Other    |
| 1      | MW-1      | WT          | 11/15/02       | 14:15          | 3            |               |                                |                  | X   |      |   |          |                  | 92263922 |
| 2      | MW-2      |             |                | 14:00          | 3            |               |                                |                  |     |      |   |          |                  | 242      |
| 3      | WSW-1     |             |                | 14:30          | 3            |               |                                |                  |     |      |   |          |                  | 257      |
| 4      |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 5      |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 6      |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 7      |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 8      |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 9      |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 10     |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 11     |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |
| 12     |           |             |                |                |              |               |                                |                  |     |      |   |          |                  |          |

| SHIPMENT METHOD | AIRBILL NO. | SHIPPING DATE | NO. OF COOLERS | ITEM NUMBER | RELINQUISHED BY / AFFILIATION | DATE            | TIME         | ACCEPTED BY / AFFILIATION | DATE            | TIME         |
|-----------------|-------------|---------------|----------------|-------------|-------------------------------|-----------------|--------------|---------------------------|-----------------|--------------|
|                 |             |               | 1              | 1           | <u>Debra Thoma UST</u>        | <u>11/15/02</u> | <u>17:00</u> | <u>[Signature]</u>        | <u>11/15/02</u> | <u>17:00</u> |

**SAMPLE CONDITION**

Temp in °C: 3.4

Received on Ice:  Y  N

Sealed Cooler:  Y  N

Samples Intact:  Y  N

Additional Comments:

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Travis Williams / Bob Falter

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 11/15/02

No. 5593 P. 6/6



**Donna Moye - Additional Information on 1,2-DCA**

---

**From:** Fran Marshall  
**To:** yendisg@use.net  
**Date:** 12/16/2010 10:43 AM  
**Subject:** Additional Information on 1,2-DCA  
**CC:** Moye, Donna; Rowe, Donna H.

---

Mr. Gordon, below you will find some links to toxicological information on 1,2-dichloroethane (also known as ethylene dichloride, or abbreviated "1,2-DCA"). I know that you have done a good bit of research and you may well already be familiar with these web sites. The Tox Fact Sheet link under the Agency for Toxic Substances and Disease Registry (ATSDR) site provides a good summary. I found it interesting that 1,2-DCA was historically used in small amounts in household cleaning agents, pesticides and wallpaper/carpet glue.

If after looking over this information you have any additional questions, I would be more than happy to talk with you. I will be out of the office all week next week, but back on December 27. I wish you and yours a safe, happy and healthy Holiday Season.

**Agency for Toxic Substances and Disease Registry landing page for 1,2-DCA:**  
<http://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=110>

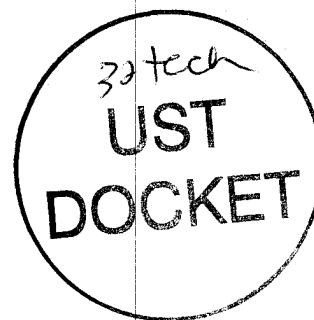
**"Summary:** 1,2-Dichloroethane, also called ethylene dichloride, is a manufactured chemical that is not found naturally in the environment. It is a clear liquid and has a pleasant smell and sweet taste. The most common use of 1,2-dichloroethane is in the production of vinyl chloride which is used to make a variety of plastic and vinyl products including polyvinyl chloride (PVC) pipes, furniture and automobile upholstery, wall coverings, housewares, and automobile parts. It is also used to as a solvent and is added to leaded gasoline to remove lead."

**US Environmental Protection Agency landing page for 1,2-DCA (another name for 1,2-dichloroethane is ethylene dichloride):** <http://www.epa.gov/ttnatw01/hlthef/di-ethan.html>

"Sources and Potential Exposure

- Inhalation of ethylene dichloride in the ambient or workplace air is generally the main route of human exposure. The compound may be released during its production, storage, use, transport, and disposal. (1)
- Exposure may also occur through the consumption of contaminated water. But usually ethylene dichloride will evaporate quickly into the air from the water or soil. (1)
- The average levels of ethylene dichloride in the air of seven urban locations in 1980-1981 ranged from 0.1 to 1.5 parts per billion (ppb). (1)
- 

Fran W. Marshall, J.D., M.S.P.H.  
SC DHEC State Toxicologist  
2600 Bull Street, Room 2673  
Columbia, South Carolina 29201  
803.898.9197



## Donna Moye - Fwd: 378 Truck Stop DHEC Meeting

---

**From:** Fran Marshall  
**To:** Moye, Donna; Rowe, Donna H.  
**Date:** 12/16/2010 11:03 AM  
**Subject:** Fwd: 378 Truck Stop DHEC Meeting

---

I forgot to cc y'all on this one that I sent to Mr. Gordon yesterday.

Fran W. Marshall, J.D., M.S.P.H.  
SC DHEC State Toxicologist  
2600 Bull Street, Room 2673  
Columbia, South Carolina 29201  
803.898.9197

>>> Fran Marshall 12/15/2010 2:00 PM >>>

Mr. Gordon, it was a pleasure to speak with you on Monday night at the public meeting regarding the assessment of the groundwater contamination around the former 378 truck stop. First, again, my condolences concerning the death of your mother. I was also sorry to learn of your health issues and certainly wish you continuing improving health.

I am sorry not to get back with you sooner, but I was out of the office all day yesterday. I am still compiling some information for you on 1,2 DCA. I know that you have done a lot of research and you may well have all of the information that I will send.

I hope to have the information to you by tomorrow around lunchtime. I just wanted to let you know that I have not forgotten. In the interim, this is a really good web site from the National Library of Medicine about chemicals in the environment. I don't believe that this site will contain much toxicity information on 1,2, DCA, but it does have some good information generally. Here is the link: <http://toxtown.nlm.nih.gov/>

Again, it was a pleasure to meet with you. I will send you some additional information tomorrow.

Regards,

Fran W. Marshall, J.D., M.S.P.H.  
SC DHEC State Toxicologist  
2600 Bull Street, Room 2673  
Columbia, South Carolina 29201  
803.898.9197



Pace Analytical Services, Inc.  
2225 Riverside Dr.  
Asheville, NC 28804  
(828)254-7176

Pace Analytical Services, Inc.  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

November 02, 2010

Ms. Christine Dupuis  
Environmental Compliance Servi  
13504 South Point Blvd  
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP  
Pace Project No.: 9280235

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com  
Project Manager

UST Docket 1331

Enclosures

**REPORT OF LABORATORY ANALYSIS**

Page 1 of 57

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## CERTIFICATIONS

**Project:** 378 TRUCK STOP  
**Pace Project No.:** 9280235

### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/LELAP Certification #: 04034  
New Jersey Certification #: NC012  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
Pennsylvania Certification #: 68-00784

South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Virginia Certification #: 00213  
Connecticut Certification #: PH-0104  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DHH Drinking Water # LA 100031

### Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804  
Connecticut Certification #: PH-0106  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
New Jersey Certification #: NC011  
North Carolina Bioassay Certification #: 9

North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40  
Pennsylvania Certification #: 68-03578  
South Carolina Bioassay Certification #: 99030002  
South Carolina Certification #: 99030001  
Virginia Certification #: 00072

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID  | Matrix | Date Collected | Date Received  |
|------------|------------|--------|----------------|----------------|
| 9280235001 | MW-2       | Water  | 10/19/10 12:10 | 10/20/10 14:20 |
| 9280235002 | MW-3       | Water  | 10/18/10 16:45 | 10/20/10 14:20 |
| 9280235003 | MW-4       | Water  | 10/18/10 16:55 | 10/20/10 14:20 |
| 9280235004 | MW-5       | Water  | 10/18/10 17:05 | 10/20/10 14:20 |
| 9280235005 | MW-6       | Water  | 10/19/10 12:25 | 10/20/10 14:20 |
| 9280235006 | MW-7       | Water  | 10/19/10 12:15 | 10/20/10 14:20 |
| 9280235007 | MW-8       | Water  | 10/19/10 12:00 | 10/20/10 14:20 |
| 9280235008 | MW-9       | Water  | 10/19/10 09:25 | 10/20/10 14:20 |
| 9280235009 | MW-10      | Water  | 10/19/10 09:40 | 10/20/10 14:20 |
| 9280235010 | MW-11      | Water  | 10/19/10 09:50 | 10/20/10 14:20 |
| 9280235011 | MW-12      | Water  | 10/19/10 10:15 | 10/20/10 14:20 |
| 9280235012 | MW-13      | Water  | 10/19/10 10:25 | 10/20/10 14:20 |
| 9280235013 | MW-14      | Water  | 10/19/10 09:55 | 10/20/10 14:20 |
| 9280235014 | MW-15      | Water  | 10/19/10 10:30 | 10/20/10 14:20 |
| 9280235015 | MW-16      | Water  | 10/19/10 11:45 | 10/20/10 14:20 |
| 9280235016 | MW-17      | Water  | 10/19/10 11:00 | 10/20/10 14:20 |
| 9280235017 | MW-18      | Water  | 10/19/10 11:10 | 10/20/10 14:20 |
| 9280235018 | MW-19      | Water  | 10/19/10 11:30 | 10/20/10 14:20 |
| 9280235019 | TW-1       | Water  | 10/18/10 17:15 | 10/20/10 14:20 |
| 9280235020 | TW-2       | Water  | 10/19/10 10:45 | 10/20/10 14:20 |
| 9280235021 | TW-3       | Water  | 10/19/10 09:15 | 10/20/10 14:20 |
| 9280235022 | TW-4       | Water  | 10/19/10 09:35 | 10/20/10 14:20 |
| 9280235023 | TW-5       | Water  | 10/19/10 10:10 | 10/20/10 14:20 |
| 9280235024 | TW-6       | Water  | 10/19/10 11:40 | 10/20/10 14:20 |
| 9280235025 | TW-7       | Water  | 10/19/10 10:55 | 10/20/10 14:20 |
| 9280235026 | TW-8       | Water  | 10/19/10 11:25 | 10/20/10 14:20 |
| 9280235027 | MW-6 LEAD  | Water  | 10/18/10 16:35 | 10/20/10 14:20 |
| 9280235028 | MW-7 LEAD  | Water  | 10/18/10 16:15 | 10/20/10 14:20 |
| 9280235029 | MW-8 LEAD  | Water  | 10/18/10 15:35 | 10/20/10 14:20 |
| 9280235030 | MW-9 LEAD  | Water  | 10/18/10 13:50 | 10/20/10 14:20 |
| 9280235031 | MW-10 LEAD | Water  | 10/18/10 14:25 | 10/20/10 14:20 |
| 9280235032 | MW-11 LEAD | Water  | 10/18/10 16:05 | 10/20/10 14:20 |
| 9280235033 | MW-12 LEAD | Water  | 10/18/10 15:10 | 10/20/10 14:20 |
| 9280235034 | MW-13 LEAD | Water  | 10/18/10 15:30 | 10/20/10 14:20 |
| 9280235035 | MW-14 LEAD | Water  | 10/18/10 16:10 | 10/20/10 14:20 |
| 9280235036 | MW-15 LEAD | Water  | 10/18/10 15:45 | 10/20/10 14:20 |
| 9280235037 | MW-16 LEAD | Water  | 10/18/10 14:45 | 10/20/10 14:20 |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID  | Matrix | Date Collected | Date Received  |
|------------|------------|--------|----------------|----------------|
| 9280235038 | MW-17 LEAD | Water  | 10/18/10 13:00 | 10/20/10 14:20 |
| 9280235039 | MW-18 LEAD | Water  | 10/18/10 15:10 | 10/20/10 14:20 |
| 9280235040 | MW-19 LEAD | Water  | 10/18/10 14:00 | 10/20/10 14:20 |
| 9280235041 | TW-1 LEAD  | Water  | 10/18/10 12:10 | 10/20/10 14:20 |
| 9280235042 | TW-2 LEAD  | Water  | 10/18/10 12:05 | 10/20/10 14:20 |
| 9280235043 | TW-3 LEAD  | Water  | 10/18/10 13:05 | 10/20/10 14:20 |
| 9280235044 | TW-4 LEAD  | Water  | 10/18/10 14:00 | 10/20/10 14:20 |
| 9280235045 | TW-5 LEAD  | Water  | 10/18/10 14:50 | 10/20/10 14:20 |
| 9280235046 | TW-6 LEAD  | Water  | 10/18/10 14:25 | 10/20/10 14:20 |
| 9280235047 | TW-7 LEAD  | Water  | 10/18/10 12:50 | 10/20/10 14:20 |
| 9280235048 | TW-8 LEAD  | Water  | 10/18/10 13:40 | 10/20/10 14:20 |
| 9280235049 | WSW-1      | Water  | 10/19/10 14:05 | 10/20/10 14:20 |
| 9280235050 | WSW-2      | Water  | 10/19/10 13:55 | 10/20/10 14:20 |
| 9280235051 | WSW-3      | Water  | 10/19/10 13:00 | 10/20/10 14:20 |
| 9280235052 | WSW-4      | Water  | 10/19/10 12:45 | 10/20/10 14:20 |
| 9280235053 | WSW-5      | Water  | 10/19/10 13:45 | 10/20/10 14:20 |
| 9280235054 | WSW-6      | Water  | 10/19/10 13:30 | 10/20/10 14:20 |
| 9280235055 | WSW-7      | Water  | 10/19/10 14:15 | 10/20/10 14:20 |
| 9280235056 | WSW-8      | Water  | 10/19/10 14:30 | 10/20/10 14:20 |
| 9280235057 | WSW-9      | Water  | 10/19/10 14:40 | 10/20/10 14:20 |
| 9280235058 | WSW-10     | Water  | 10/19/10 14:50 | 10/20/10 14:20 |
| 9280235059 | WSW-11     | Water  | 10/19/10 15:00 | 10/20/10 14:20 |
| 9280235060 | WSW-12     | Water  | 10/19/10 15:05 | 10/20/10 14:20 |
| 9280235061 | WSW-13     | Water  | 10/19/10 15:20 | 10/20/10 14:20 |
| 9280235062 | WSW-14     | Water  | 10/19/10 15:30 | 10/20/10 14:20 |
| 9280235063 | WSW-15     | Water  | 10/19/10 15:40 | 10/20/10 14:20 |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID | Method   | Analysts | Analytes Reported | Laboratory |
|------------|-----------|----------|----------|-------------------|------------|
| 9280235001 | MW-2      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235002 | MW-3      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235003 | MW-4      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235004 | MW-5      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235005 | MW-6      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235006 | MW-7      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235007 | MW-8      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235008 | MW-9      | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235009 | MW-10     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235010 | MW-11     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235011 | MW-12     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235012 | MW-13     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235013 | MW-14     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235014 | MW-15     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 20                | PASI-C     |
| 9280235015 | MW-16     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | BLC, KJM | 20                | PASI-C     |
| 9280235016 | MW-17     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | BLC      | 20                | PASI-C     |
| 9280235017 | MW-18     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | BLC      | 20                | PASI-C     |
| 9280235018 | MW-19     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | BLC      | 20                | PASI-C     |
| 9280235019 | TW-1      | EPA 8011 | RES      | 2                 | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID  | Method   | Analysts | Analytes Reported | Laboratory |
|------------|------------|----------|----------|-------------------|------------|
| 9280235020 | TW-2       | EPA 8260 | BLC      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235021 | TW-3       | EPA 8260 | BLC      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235022 | TW-4       | EPA 8260 | BLC      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235023 | TW-5       | EPA 8260 | MCK      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235024 | TW-6       | EPA 8260 | MCK      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235025 | TW-7       | EPA 8260 | MCK      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235026 | TW-8       | EPA 8260 | MCK      | 20                | PASI-C     |
|            |            | EPA 8011 | RES      | 2                 | PASI-C     |
| 9280235027 | MW-6 LEAD  | EPA 8260 | MCK      | 20                | PASI-C     |
| 9280235027 | MW-6 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235028 | MW-7 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235029 | MW-8 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235030 | MW-9 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235031 | MW-10 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235032 | MW-11 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235033 | MW-12 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235034 | MW-13 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235035 | MW-14 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235036 | MW-15 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235037 | MW-16 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235038 | MW-17 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235039 | MW-18 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235040 | MW-19 LEAD | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235041 | TW-1 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235042 | TW-2 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235043 | TW-3 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235044 | TW-4 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235045 | TW-5 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235046 | TW-6 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235047 | TW-7 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |
| 9280235048 | TW-8 LEAD  | EPA 6010 | SHB      | 1                 | PASI-A     |

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID | Method   | Analysts | Analytes Reported | Laboratory |
|------------|-----------|----------|----------|-------------------|------------|
| 9280235049 | WSW-1     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235050 | WSW-2     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235051 | WSW-3     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235052 | WSW-4     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235053 | WSW-5     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235054 | WSW-6     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235055 | WSW-7     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235056 | WSW-8     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235057 | WSW-9     | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235058 | WSW-10    | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235059 | WSW-11    | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235060 | WSW-12    | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235061 | WSW-13    | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235062 | WSW-14    | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |
| 9280235063 | WSW-15    | EPA 8011 | RES      | 2                 | PASI-C     |
|            |           | EPA 8260 | KJM      | 12                | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-2                 |           | Lab ID: 9280235001                                       | Collected: 10/19/10 12:10 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|-----------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results   | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.     | Qual |
|                              |           |  | Limit                     | MDL                      | DF            |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L   |  | 0.020                     | 0.020                    | 1             | 10/21/10 14:12 | 10/21/10 23:05 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 83 %      |  | 60-140                    |                          | 1             | 10/21/10 14:12 | 10/21/10 23:05 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | ND ug/L   |  | 100                       | 62.0                     | 1             |                | 10/25/10 15:58 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0                      | 4.5                      | 1             |                | 10/25/10 15:58 | 994-05-8    |      |
| Benzene                      | 1.7J ug/L |  | 5.0                       | 1.2                      | 1             |                | 10/25/10 15:58 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100                       | 48.0                     | 1             |                | 10/25/10 15:58 | 624-95-3    |      |
| tert-Butyl Alcohol           | 254 ug/L  |  | 100                       | 27.0                     | 1             |                | 10/25/10 15:58 | 75-65-0     |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0                      | 9.0                      | 1             |                | 10/25/10 15:58 | 762-75-4    |      |
| 1,2-Dichloroethane           | 24.8 ug/L |  | 5.0                       | 1.3                      | 1             |                | 10/25/10 15:58 | 107-06-2    |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0                       | 2.7                      | 1             |                | 10/25/10 15:58 | 108-20-3    |      |
| Ethanol                      | ND ug/L   |  | 200                       | 170                      | 1             |                | 10/25/10 15:58 | 64-17-5     |      |
| Ethylbenzene                 | ND ug/L   |  | 5.0                       | 1.1                      | 1             |                | 10/25/10 15:58 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND ug/L   |  | 10.0                      | 4.6                      | 1             |                | 10/25/10 15:58 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND ug/L   |  | 5.0                       | 2.0                      | 1             |                | 10/25/10 15:58 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L   |  | 5.0                       | 2.9                      | 1             |                | 10/25/10 15:58 | 91-20-3     |      |
| Toluene                      | ND ug/L   |  | 5.0                       | 1.8                      | 1             |                | 10/25/10 15:58 | 108-88-3    |      |
| m&p-Xylene                   | 2.9J ug/L |  | 10.0                      | 2.7                      | 1             |                | 10/25/10 15:58 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L   |  | 5.0                       | 1.7                      | 1             |                | 10/25/10 15:58 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 95 %      |  | 70-130                    |                          | 1             |                | 10/25/10 15:58 | 1868-53-7   |      |
| Toluene-d8 (S)               | 95 %      |  | 70-130                    |                          | 1             |                | 10/25/10 15:58 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 91 %      |  | 70-130                    |                          | 1             |                | 10/25/10 15:58 | 480-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 100 %     |  | 70-130                    |                          | 1             |                | 10/25/10 15:58 | 17060-07-0  |      |

| Sample: MW-3                 |            | Lab ID: 9280235002                                       | Collected: 10/18/10 16:45 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |
|------------------------------|------------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                   | Results    | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.   | Qual |
|                              |            |  | Limit                     | MDL                      | DF            |                |                |           |      |
| <b>8011 GCS EDB and DBCP</b> |            | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |           |      |
| 1,2-Dibromoethane (EDB)      | 0.31 ug/L  |  | 0.020                     | 0.020                    | 1             | 10/21/10 14:12 | 10/21/10 23:26 | 106-93-4  |      |
| 1-Chloro-2-bromopropane (S)  | 119 %      |  | 60-140                    |                          | 1             | 10/21/10 14:12 | 10/21/10 23:26 | 301-79-56 |      |
| <b>8260 MSV Oxygenates</b>   |            | Analytical Method: EPA 8260                              |                           |                          |               |                |                |           |      |
| tert-Amyl Alcohol            | 12900 ug/L |  | 100                       | 62.0                     | 1             |                | 10/23/10 23:26 | 75-85-4   | E    |
| tert-Amylmethyl ether        | ND ug/L    |  | 10.0                      | 4.5                      | 1             |                | 10/23/10 23:26 | 994-05-8  |      |
| Benzene                      | 6820 ug/L  |  | 500                       | 120                      | 100           |                | 10/25/10 18:45 | 71-43-2   |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L    |  | 100                       | 48.0                     | 1             |                | 10/23/10 23:26 | 624-95-3  |      |
| tert-Butyl Alcohol           | 773 ug/L   |  | 100                       | 27.0                     | 1             |                | 10/23/10 23:26 | 75-65-0   |      |
| tert-Butyl Formate           | ND ug/L    |  | 50.0                      | 9.0                      | 1             |                | 10/23/10 23:26 | 762-75-4  |      |
| 1,2-Dichloroethane           | 561 ug/L   |  | 5.0                       | 1.3                      | 1             |                | 10/23/10 23:26 | 107-06-2  | E    |
| Diisopropyl ether            | 55.7 ug/L  |  | 5.0                       | 2.7                      | 1             |                | 10/23/10 23:26 | 108-20-3  |      |
| Ethanol                      | ND ug/L    |  | 200                       | 170                      | 1             |                | 10/23/10 23:26 | 64-17-5   |      |
| Ethylbenzene                 | 981 ug/L   |  | 500                       | 110                      | 100           |                | 10/25/10 18:45 | 100-41-4  |      |

Date: 11/02/2010 07:59 AM

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-3               |           | Lab ID: 9280235002          | Collected: 10/18/10 16:45 | Received: 10/20/10 14:20 | Matrix: Water |          |                |             |      |
|----------------------------|-----------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters                 | Results   | Units                       | Report                    |                          |               | Prepared | Analyzed       | CAS No.     | Qual |
|                            |           |                             | Limit                     | MDL                      | DF            |          |                |             |      |
| <b>8260 MSV Oxygenates</b> |           | Analytical Method: EPA 8260 |                           |                          |               |          |                |             |      |
| Ethyl-tert-butyl ether     | ND ug/L   |                             | 10.0                      | 4.6                      | 1             |          | 10/23/10 23:26 | 637-92-3    |      |
| Methyl-tert-butyl ether    | 3.4J ug/L |                             | 5.0                       | 2.0                      | 1             |          | 10/23/10 23:26 | 1634-04-4   |      |
| Naphthalene                | 449 ug/L  |                             | 5.0                       | 2.9                      | 1             |          | 10/23/10 23:26 | 91-20-3     | E    |
| Toluene                    | 343 ug/L  |                             | 5.0                       | 1.8                      | 1             |          | 10/23/10 23:26 | 108-88-3    | E    |
| m&p-Xylene                 | 4530 ug/L |                             | 1000                      | 270                      | 100           |          | 10/25/10 18:45 | 179601-23-1 |      |
| o-Xylene                   | 1730 ug/L |                             | 500                       | 170                      | 100           |          | 10/25/10 18:45 | 95-47-6     |      |
| Dibromofluoromethane (S)   | 95 %      |                             | 70-130                    |                          | 1             |          | 10/23/10 23:26 | 1868-53-7   |      |
| Toluene-d8 (S)             | 102 %     |                             | 70-130                    |                          | 1             |          | 10/23/10 23:26 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)   | 98 %      |                             | 70-130                    |                          | 1             |          | 10/23/10 23:26 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)  | 95 %      |                             | 70-130                    |                          | 1             |          | 10/23/10 23:26 | 17060-07-0  |      |

| Sample: MW-4                 |           | Lab ID: 9280235003                                       | Collected: 10/18/10 16:55 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|-----------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results   | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.     | Qual |
|                              |           |  | Limit                     | MDL                      | DF            |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L   |  | 0.020                     | 0.020                    | 1             | 10/21/10 14:13 | 10/21/10 23:46 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 72 %      |  | 60-140                    |                          | 1             | 10/21/10 14:13 | 10/21/10 23:46 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | 199 ug/L  |  | 100                       | 62.0                     | 1             |                | 10/23/10 20:24 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0                      | 4.5                      | 1             |                | 10/23/10 20:24 | 994-05-8    |      |
| Benzene                      | 5.7 ug/L  |  | 5.0                       | 1.2                      | 1             |                | 10/23/10 20:24 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100                       | 48.0                     | 1             |                | 10/23/10 20:24 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND ug/L   |  | 100                       | 27.0                     | 1             |                | 10/23/10 20:24 | 75-65-0     |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0                      | 9.0                      | 1             |                | 10/23/10 20:24 | 762-75-4    |      |
| 1,2-Dichloroethane           | 4.8J ug/L |  | 5.0                       | 1.3                      | 1             |                | 10/23/10 20:24 | 107-06-2    |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0                       | 2.7                      | 1             |                | 10/23/10 20:24 | 108-20-3    |      |
| Ethanol                      | ND ug/L   |  | 200                       | 170                      | 1             |                | 10/23/10 20:24 | 64-17-5     |      |
| Ethylbenzene                 | ND ug/L   |  | 5.0                       | 1.1                      | 1             |                | 10/23/10 20:24 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND ug/L   |  | 10.0                      | 4.6                      | 1             |                | 10/23/10 20:24 | 637-92-3    |      |
| Methyl-tert-butyl ether      | 3.0J ug/L |  | 5.0                       | 2.0                      | 1             |                | 10/23/10 20:24 | 1634-04-4   |      |
| Naphthalene                  | 3.7J ug/L |  | 5.0                       | 2.9                      | 1             |                | 10/23/10 20:24 | 91-20-3     |      |
| Toluene                      | ND ug/L   |  | 5.0                       | 1.8                      | 1             |                | 10/23/10 20:24 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L   |  | 10.0                      | 2.7                      | 1             |                | 10/23/10 20:24 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L   |  | 5.0                       | 1.7                      | 1             |                | 10/23/10 20:24 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 103 %     |  | 70-130                    |                          | 1             |                | 10/23/10 20:24 | 1868-53-7   |      |
| Toluene-d8 (S)               | 103 %     |  | 70-130                    |                          | 1             |                | 10/23/10 20:24 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 98 %      |  | 70-130                    |                          | 1             |                | 10/23/10 20:24 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 111 %     |  | 70-130                    |                          | 1             |                | 10/23/10 20:24 | 17060-07-0  |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-5                 |         | Lab ID: 9280235004                                       | Collected: 10/18/10 17:05 | Received: 10/20/10 14:20 | Matrix: Water | Report         |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Limit                     | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:13 | 10/22/10 00:06 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 85 %    |  | 60-140                    |                          | 1             | 10/21/10 14:13 | 10/22/10 00:06 | 301-79-56   |      |  |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| tert-Amyl Alcohol            | 168     | ug/L   | 100                       | 62.0                     | 1             |                | 10/23/10 19:29 | 75-85-4     |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/23/10 19:29 | 994-05-8    |      |  |
| Benzene                      | 102     | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 19:29 | 71-43-2     |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/23/10 19:29 | 624-95-3    |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/23/10 19:29 | 75-65-0     |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/23/10 19:29 | 762-75-4    |      |  |
| 1,2-Dichloroethane           | 6.6     | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 19:29 | 107-06-2    |      |  |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/23/10 19:29 | 108-20-3    |      |  |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/23/10 19:29 | 64-17-5     |      |  |
| Ethylbenzene                 | 4.1J    | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 19:29 | 100-41-4    |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0                      | 4.6                      | 1             |                | 10/23/10 19:29 | 637-92-3    |      |  |
| Methyl-tert-butyl ether      | 3.2J    | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/23/10 19:29 | 1634-04-4   |      |  |
| Naphthalene                  | 43.6    | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/23/10 19:29 | 91-20-3     |      |  |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/23/10 19:29 | 108-88-3    |      |  |
| m&p-Xylene                   | 115     | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/23/10 19:29 | 179601-23-1 |      |  |
| o-Xylene                     | 20.9    | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/23/10 19:29 | 95-47-6     |      |  |
| Dibromofluoromethane (S)     | 101     | %  | 70-130                    |                          | 1             |                | 10/23/10 19:29 | 1868-53-7   |      |  |
| Toluene-d8 (S)               | 101     | %  | 70-130                    |                          | 1             |                | 10/23/10 19:29 | 2037-26-5   |      |  |
| 4-Bromofluorobenzene (S)     | 104     | %  | 70-130                    |                          | 1             |                | 10/23/10 19:29 | 460-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)    | 105     | %  | 70-130                    |                          | 1             |                | 10/23/10 19:29 | 17060-07-0  |      |  |

| Sample: MW-6                 |         | Lab ID: 9280235005                                       | Collected: 10/19/10 12:25 | Received: 10/20/10 14:20 | Matrix: Water | Report         |                |           |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters                   | Results | Units  | Limit                     | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |           |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:13 | 10/22/10 00:26 | 106-93-4  |      |  |
| 1-Chloro-2-bromopropane (S)  | 86 %    |  | 60-140                    |                          | 1             | 10/21/10 14:13 | 10/22/10 00:26 | 301-79-56 |      |  |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |           |      |  |
| tert-Amyl Alcohol            | 131     | ug/L   | 100                       | 62.0                     | 1             |                | 10/23/10 19:47 | 75-85-4   |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/23/10 19:47 | 994-05-8  |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 19:47 | 71-43-2   |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/23/10 19:47 | 624-95-3  |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/23/10 19:47 | 75-65-0   |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/23/10 19:47 | 762-75-4  |      |  |
| 1,2-Dichloroethane           | 3.5J    | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 19:47 | 107-06-2  |      |  |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/23/10 19:47 | 108-20-3  |      |  |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/23/10 19:47 | 64-17-5   |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 19:47 | 100-41-4  |      |  |

Date: 11/02/2010 07:59 AM

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-6               |           | Lab ID: 9280235005          | Collected: 10/19/10 12:25 | Received: 10/20/10 14:20 | Matrix: Water |          |                |             |      |
|----------------------------|-----------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters                 | Results   | Units                       | Report                    |                          |               | Prepared | Analyzed       | CAS No.     | Qual |
|                            |           |                             | Limit                     | MDL                      | DF            |          |                |             |      |
| <b>8260 MSV Oxygenates</b> |           | Analytical Method: EPA 8260 |                           |                          |               |          |                |             |      |
| Ethyl-tert-butyl ether     | ND ug/L   |                             | 10.0                      | 4.6                      | 1             |          | 10/23/10 19:47 | 637-92-3    |      |
| Methyl-tert-butyl ether    | 3.0J ug/L |                             | 5.0                       | 2.0                      | 1             |          | 10/23/10 19:47 | 1634-04-4   |      |
| Naphthalene                | ND ug/L   |                             | 5.0                       | 2.9                      | 1             |          | 10/23/10 19:47 | 91-20-3     |      |
| Toluene                    | ND ug/L   |                             | 5.0                       | 1.8                      | 1             |          | 10/23/10 19:47 | 108-88-3    |      |
| m&p-Xylene                 | ND ug/L   |                             | 10.0                      | 2.7                      | 1             |          | 10/23/10 19:47 | 179601-23-1 |      |
| o-Xylene                   | ND ug/L   |                             | 5.0                       | 1.7                      | 1             |          | 10/23/10 19:47 | 95-47-6     |      |
| Dibromofluoromethane (S)   | 104 %     |                             | 70-130                    |                          | 1             |          | 10/23/10 19:47 | 1868-53-7   |      |
| Toluene-d8 (S)             | 102 %     |                             | 70-130                    |                          | 1             |          | 10/23/10 19:47 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)   | 92 %      |                             | 70-130                    |                          | 1             |          | 10/23/10 19:47 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)  | 103 %     |                             | 70-130                    |                          | 1             |          | 10/23/10 19:47 | 17060-07-0  |      |

| Sample: MW-7                 |           | Lab ID: 9280235006                                       | Collected: 10/19/10 12:15 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|-----------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results   | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.     | Qual |
|                              |           |  | Limit                     | MDL                      | DF            |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | 0.40 ug/L |  | 0.020                     | 0.020                    | 1             | 10/21/10 14:15 | 10/22/10 00:12 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 105 %     |  | 60-140                    |                          | 1             | 10/21/10 14:15 | 10/22/10 00:12 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | ND ug/L   |  | 100                       | 62.0                     | 1             |                | 10/23/10 20:42 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0                      | 4.5                      | 1             |                | 10/23/10 20:42 | 994-05-8    |      |
| Benzene                      | 12.9 ug/L |  | 5.0                       | 1.2                      | 1             |                | 10/23/10 20:42 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100                       | 48.0                     | 1             |                | 10/23/10 20:42 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND ug/L   |  | 100                       | 27.0                     | 1             |                | 10/23/10 20:42 | 75-85-0     |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0                      | 9.0                      | 1             |                | 10/23/10 20:42 | 762-75-4    |      |
| 1,2-Dichloroethane           | 4.6J ug/L |  | 5.0                       | 1.3                      | 1             |                | 10/23/10 20:42 | 107-06-2    |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0                       | 2.7                      | 1             |                | 10/23/10 20:42 | 108-20-3    |      |
| Ethanol                      | ND ug/L   |  | 200                       | 170                      | 1             |                | 10/23/10 20:42 | 64-17-5     |      |
| Ethylbenzene                 | 3.2J ug/L |  | 5.0                       | 1.1                      | 1             |                | 10/23/10 20:42 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND ug/L   |  | 10.0                      | 4.6                      | 1             |                | 10/23/10 20:42 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND ug/L   |  | 5.0                       | 2.0                      | 1             |                | 10/23/10 20:42 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L   |  | 5.0                       | 2.9                      | 1             |                | 10/23/10 20:42 | 91-20-3     |      |
| Toluene                      | 4.6J ug/L |  | 5.0                       | 1.8                      | 1             |                | 10/23/10 20:42 | 108-88-3    |      |
| m&p-Xylene                   | 9.2J ug/L |  | 10.0                      | 2.7                      | 1             |                | 10/23/10 20:42 | 179601-23-1 |      |
| o-Xylene                     | 25.0 ug/L |  | 5.0                       | 1.7                      | 1             |                | 10/23/10 20:42 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 102 %     |  | 70-130                    |                          | 1             |                | 10/23/10 20:42 | 1868-53-7   |      |
| Toluene-d8 (S)               | 99 %      |  | 70-130                    |                          | 1             |                | 10/23/10 20:42 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 98 %      |  | 70-130                    |                          | 1             |                | 10/23/10 20:42 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 105 %     |  | 70-130                    |                          | 1             |                | 10/23/10 20:42 | 17060-07-0  |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-8                 |         | Lab ID: 9280235007                                       | Collected: 10/19/10 12:00 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:15 | 10/22/10 01:06 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 105     | %  | 60-140                    |                          | 1             | 10/21/10 14:15 | 10/22/10 01:06 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100                       | 62.0                     | 1             |                | 10/23/10 20:06 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/23/10 20:06 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 20:06 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/23/10 20:06 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/23/10 20:06 | 75-85-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/23/10 20:06 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 20:06 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/23/10 20:06 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/23/10 20:06 | 64-17-5     |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 20:06 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0                      | 4.6                      | 1             |                | 10/23/10 20:06 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/23/10 20:06 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/23/10 20:06 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/23/10 20:06 | 108-88-3    |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/23/10 20:06 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/23/10 20:06 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 103     | %  | 70-130                    |                          | 1             |                | 10/23/10 20:06 | 1868-53-7   |      |
| Toluene-d8 (S)               | 102     | %  | 70-130                    |                          | 1             |                | 10/23/10 20:06 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 98      | %  | 70-130                    |                          | 1             |                | 10/23/10 20:06 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 107     | %  | 70-130                    |                          | 1             |                | 10/23/10 20:06 | 17060-07-0  |      |

| Sample: MW-9                 |         | Lab ID: 9280235008                                       | Collected: 10/19/10 09:25 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |           |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:16 | 10/22/10 01:24 | 106-93-4  |      |
| 1-Chloro-2-bromopropane (S)  | 107     | %  | 60-140                    |                          | 1             | 10/21/10 14:16 | 10/22/10 01:24 | 301-79-56 |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |           |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100                       | 62.0                     | 1             |                | 10/23/10 21:00 | 75-85-4   |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/23/10 21:00 | 994-05-8  |      |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 21:00 | 71-43-2   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/23/10 21:00 | 624-95-3  |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/23/10 21:00 | 75-85-0   |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/23/10 21:00 | 762-75-4  |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 21:00 | 107-06-2  |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/23/10 21:00 | 108-20-3  |      |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/23/10 21:00 | 64-17-5   |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 21:00 | 100-41-4  |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-9               |         | Lab ID: 9280235008          | Collected: 10/19/10 09:25 | Received: 10/20/10 14:20 | Matrix: Water |          |                |             |      |  |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|--|
| Parameters                 | Results | Units                       | Report Limit              | MDL                      | DF            | Prepared | Analyzed       | CAS No.     | Qual |  |
| <b>8260 MSV Oxygenates</b> |         | Analytical Method: EPA 8260 |                           |                          |               |          |                |             |      |  |
| Ethyl-tert-butyl ether     | ND ug/L |                             | 10.0                      | 4.6                      | 1             |          | 10/23/10 21:00 | 637-92-3    |      |  |
| Methyl-tert-butyl ether    | ND ug/L |                             | 5.0                       | 2.0                      | 1             |          | 10/23/10 21:00 | 1634-04-4   |      |  |
| Naphthalene                | ND ug/L |                             | 5.0                       | 2.9                      | 1             |          | 10/23/10 21:00 | 91-20-3     |      |  |
| Toluene                    | ND ug/L |                             | 5.0                       | 1.8                      | 1             |          | 10/23/10 21:00 | 108-88-3    |      |  |
| m&p-Xylene                 | ND ug/L |                             | 10.0                      | 2.7                      | 1             |          | 10/23/10 21:00 | 179601-23-1 |      |  |
| o-Xylene                   | ND ug/L |                             | 5.0                       | 1.7                      | 1             |          | 10/23/10 21:00 | 95-47-6     |      |  |
| Dibromofluoromethane (S)   | 103 %   |                             | 70-130                    |                          | 1             |          | 10/23/10 21:00 | 1868-53-7   |      |  |
| Toluene-d8 (S)             | 100 %   |                             | 70-130                    |                          | 1             |          | 10/23/10 21:00 | 2037-26-5   |      |  |
| 4-Bromofluorobenzene (S)   | 96 %    |                             | 70-130                    |                          | 1             |          | 10/23/10 21:00 | 460-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)  | 102 %   |                             | 70-130                    |                          | 1             |          | 10/23/10 21:00 | 17060-07-0  |      |  |

| Sample: MW-10                |         | Lab ID: 9280235009                                       | Collected: 10/19/10 09:40 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND ug/L |  | 0.019                     | 0.019                    | 1             | 10/21/10 14:16 | 10/22/10 01:42 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 103 %   |  | 60-140                    |                          | 1             | 10/21/10 14:16 | 10/22/10 01:42 | 301-79-56   |      |  |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| tert-Amyl Alcohol            | ND ug/L |  | 100                       | 62.0                     | 1             |                | 10/23/10 21:18 | 75-85-4     |      |  |
| tert-Amylmethyl ether        | ND ug/L |  | 10.0                      | 4.5                      | 1             |                | 10/23/10 21:18 | 994-05-8    |      |  |
| Benzene                      | ND ug/L |  | 5.0                       | 1.2                      | 1             |                | 10/23/10 21:18 | 71-43-2     |      |  |
| 3,3-Dimethyl-1-Butanol       | ND ug/L |  | 100                       | 48.0                     | 1             |                | 10/23/10 21:18 | 624-95-3    |      |  |
| tert-Butyl Alcohol           | ND ug/L |  | 100                       | 27.0                     | 1             |                | 10/23/10 21:18 | 75-65-0     |      |  |
| tert-Butyl Formate           | ND ug/L |  | 50.0                      | 9.0                      | 1             |                | 10/23/10 21:18 | 762-75-4    |      |  |
| 1,2-Dichloroethane           | ND ug/L |  | 5.0                       | 1.3                      | 1             |                | 10/23/10 21:18 | 107-06-2    |      |  |
| Diisopropyl ether            | ND ug/L |  | 5.0                       | 2.7                      | 1             |                | 10/23/10 21:18 | 108-20-3    |      |  |
| Ethanol                      | ND ug/L |  | 200                       | 170                      | 1             |                | 10/23/10 21:18 | 64-17-5     |      |  |
| Ethylbenzene                 | ND ug/L |  | 5.0                       | 1.1                      | 1             |                | 10/23/10 21:18 | 100-41-4    |      |  |
| Ethyl-tert-butyl ether       | ND ug/L |  | 10.0                      | 4.6                      | 1             |                | 10/23/10 21:18 | 637-92-3    |      |  |
| Methyl-tert-butyl ether      | ND ug/L |  | 5.0                       | 2.0                      | 1             |                | 10/23/10 21:18 | 1634-04-4   |      |  |
| Naphthalene                  | ND ug/L |  | 5.0                       | 2.9                      | 1             |                | 10/23/10 21:18 | 91-20-3     |      |  |
| Toluene                      | ND ug/L |  | 5.0                       | 1.8                      | 1             |                | 10/23/10 21:18 | 108-88-3    |      |  |
| m&p-Xylene                   | ND ug/L |  | 10.0                      | 2.7                      | 1             |                | 10/23/10 21:18 | 179601-23-1 |      |  |
| o-Xylene                     | ND ug/L |  | 5.0                       | 1.7                      | 1             |                | 10/23/10 21:18 | 95-47-6     |      |  |
| Dibromofluoromethane (S)     | 105 %   |  | 70-130                    |                          | 1             |                | 10/23/10 21:18 | 1868-53-7   |      |  |
| Toluene-d8 (S)               | 106 %   |  | 70-130                    |                          | 1             |                | 10/23/10 21:18 | 2037-26-5   |      |  |
| 4-Bromofluorobenzene (S)     | 98 %    |  | 70-130                    |                          | 1             |                | 10/23/10 21:18 | 460-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)    | 111 %   |  | 70-130                    |                          | 1             |                | 10/23/10 21:18 | 17060-07-0  |      |  |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-11                |           | Lab ID: 9280235010                                       | Collected: 10/19/10 09:50 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|-----------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results   | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.     | Qual |
|                              |           |  | Limit                     | MDL                      | DF            |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L   |  | 0.020                     | 0.020                    | 1             | 10/21/10 14:17 | 10/22/10 02:01 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 107 %     |  | 60-140                    |                          | 1             | 10/21/10 14:17 | 10/22/10 02:01 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | ND ug/L   |  | 100                       | 62.0                     | 1             |                | 10/23/10 21:37 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0                      | 4.5                      | 1             |                | 10/23/10 21:37 | 994-05-8    |      |
| Benzene                      | ND ug/L   |  | 5.0                       | 1.2                      | 1             |                | 10/23/10 21:37 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100                       | 48.0                     | 1             |                | 10/23/10 21:37 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND ug/L   |  | 100                       | 27.0                     | 1             |                | 10/23/10 21:37 | 75-65-0     |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0                      | 9.0                      | 1             |                | 10/23/10 21:37 | 762-75-4    |      |
| 1,2-Dichloroethane           | 1.3J ug/L |  | 5.0                       | 1.3                      | 1             |                | 10/23/10 21:37 | 107-06-2    |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0                       | 2.7                      | 1             |                | 10/23/10 21:37 | 108-20-3    |      |
| Ethanol                      | ND ug/L   |  | 200                       | 170                      | 1             |                | 10/23/10 21:37 | 64-17-5     |      |
| Ethylbenzene                 | ND ug/L   |  | 5.0                       | 1.1                      | 1             |                | 10/23/10 21:37 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND ug/L   |  | 10.0                      | 4.6                      | 1             |                | 10/23/10 21:37 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND ug/L   |  | 5.0                       | 2.0                      | 1             |                | 10/23/10 21:37 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L   |  | 5.0                       | 2.9                      | 1             |                | 10/23/10 21:37 | 91-20-3     |      |
| Toluene                      | ND ug/L   |  | 5.0                       | 1.8                      | 1             |                | 10/23/10 21:37 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L   |  | 10.0                      | 2.7                      | 1             |                | 10/23/10 21:37 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L   |  | 5.0                       | 1.7                      | 1             |                | 10/23/10 21:37 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 102 %     |  | 70-130                    |                          | 1             |                | 10/23/10 21:37 | 1868-53-7   |      |
| Toluene-d8 (S)               | 103 %     |  | 70-130                    |                          | 1             |                | 10/23/10 21:37 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 96 %      |  | 70-130                    |                          | 1             |                | 10/23/10 21:37 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 110 %     |  | 70-130                    |                          | 1             |                | 10/23/10 21:37 | 17060-07-0  |      |

| Sample: MW-12                |            | Lab ID: 9280235011                                       | Collected: 10/19/10 10:15 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |
|------------------------------|------------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                   | Results    | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.   | Qual |
|                              |            |  | Limit                     | MDL                      | DF            |                |                |           |      |
| <b>8011 GCS EDB and DBCP</b> |            | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |           |      |
| 1,2-Dibromoethane (EDB)      | 4.8 ug/L   |  | 0.20                      | 0.20                     | 10            | 10/21/10 14:17 | 10/22/10 11:24 | 106-93-4  |      |
| 1-Chloro-2-bromopropane (S)  | 0 %        |  | 60-140                    |                          | 10            | 10/21/10 14:17 | 10/22/10 11:24 | 301-79-56 | S4   |
| <b>8260 MSV Oxygenates</b>   |            | Analytical Method: EPA 8260                              |                           |                          |               |                |                |           |      |
| tert-Amyl Alcohol            | 267 ug/L   |  | 100                       | 62.0                     | 1             |                | 10/23/10 22:50 | 75-85-4   |      |
| tert-Amylmethyl ether        | ND ug/L    |  | 10.0                      | 4.5                      | 1             |                | 10/23/10 22:50 | 994-05-8  |      |
| Benzene                      | 387 ug/L   |  | 125                       | 30.0                     | 25            |                | 10/25/10 18:26 | 71-43-2   |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L    |  | 100                       | 48.0                     | 1             |                | 10/23/10 22:50 | 624-95-3  |      |
| tert-Butyl Alcohol           | 83.0J ug/L |  | 100                       | 27.0                     | 1             |                | 10/23/10 22:50 | 75-65-0   |      |
| tert-Butyl Formate           | ND ug/L    |  | 50.0                      | 9.0                      | 1             |                | 10/23/10 22:50 | 762-75-4  |      |
| 1,2-Dichloroethane           | 24.7 ug/L  |  | 5.0                       | 1.3                      | 1             |                | 10/23/10 22:50 | 107-06-2  |      |
| Diisopropyl ether            | ND ug/L    |  | 5.0                       | 2.7                      | 1             |                | 10/23/10 22:50 | 108-20-3  |      |
| Ethanol                      | ND ug/L    |  | 200                       | 170                      | 1             |                | 10/23/10 22:50 | 64-17-5   |      |
| Ethylbenzene                 | 120 ug/L   |  | 5.0                       | 1.1                      | 1             |                | 10/23/10 22:50 | 100-41-4  |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-12              |         | Lab ID: 9280235011          | Collected: 10/19/10 10:15 | Received: 10/20/10 14:20 | Matrix: Water |          |                |             |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters                 | Results | Units                       | Report Limit              | MDL                      | DF            | Prepared | Analyzed       | CAS No.     | Qual |
| <b>8260 MSV Oxygenates</b> |         | Analytical Method: EPA 8260 |                           |                          |               |          |                |             |      |
| Ethyl-tert-butyl ether     | ND      | ug/L                        | 10.0                      | 4.6                      | 1             |          | 10/23/10 22:50 | 637-92-3    |      |
| Methyl-tert-butyl ether    | ND      | ug/L                        | 5.0                       | 2.0                      | 1             |          | 10/23/10 22:50 | 1634-04-4   |      |
| Naphthalene                | 187     | ug/L                        | 125                       | 72.5                     | 25            |          | 10/25/10 18:26 | 91-20-3     |      |
| Toluene                    | 1210    | ug/L                        | 125                       | 45.0                     | 25            |          | 10/25/10 18:26 | 108-88-3    |      |
| m&p-Xylene                 | 1330    | ug/L                        | 250                       | 67.5                     | 25            |          | 10/25/10 18:26 | 179801-23-1 |      |
| o-Xylene                   | 1320    | ug/L                        | 125                       | 42.5                     | 25            |          | 10/25/10 18:26 | 95-47-6     |      |
| Dibromofluoromethane (S)   | 102     | %                           | 70-130                    |                          | 1             |          | 10/23/10 22:50 | 1868-53-7   |      |
| Toluene-d8 (S)             | 106     | %                           | 70-130                    |                          | 1             |          | 10/23/10 22:50 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)   | 101     | %                           | 70-130                    |                          | 1             |          | 10/23/10 22:50 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)  | 106     | %                           | 70-130                    |                          | 1             |          | 10/23/10 22:50 | 17060-07-0  |      |

| Sample: MW-13                |         | Lab ID: 9280235012                                       | Collected: 10/19/10 10:25 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | 0.022   | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:17 | 10/22/10 02:55 | 108-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 106     | %  | 60-140                    |                          | 1             | 10/21/10 14:17 | 10/22/10 02:55 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | 1260    | ug/L   | 200                       | 124                      | 2             |                | 10/23/10 21:55 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 20.0                      | 9.0                      | 2             |                | 10/23/10 21:55 | 994-05-8    |      |
| Benzene                      | 333     | ug/L   | 10.0                      | 2.4                      | 2             |                | 10/23/10 21:55 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 200                       | 98.0                     | 2             |                | 10/23/10 21:55 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 200                       | 54.0                     | 2             |                | 10/23/10 21:55 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 100                       | 18.0                     | 2             |                | 10/23/10 21:55 | 762-75-4    |      |
| 1,2-Dichloroethane           | 61.9    | ug/L   | 10.0                      | 2.6                      | 2             |                | 10/23/10 21:55 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 10.0                      | 5.4                      | 2             |                | 10/23/10 21:55 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 400                       | 340                      | 2             |                | 10/23/10 21:55 | 64-17-5     |      |
| Ethylbenzene                 | 58.3    | ug/L   | 10.0                      | 2.2                      | 2             |                | 10/23/10 21:55 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 20.0                      | 9.2                      | 2             |                | 10/23/10 21:55 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 10.0                      | 4.0                      | 2             |                | 10/23/10 21:55 | 1634-04-4   |      |
| Naphthalene                  | 10.1    | ug/L   | 10.0                      | 5.8                      | 2             |                | 10/23/10 21:55 | 91-20-3     |      |
| Toluene                      | 109     | ug/L   | 10.0                      | 3.6                      | 2             |                | 10/23/10 21:55 | 108-88-3    |      |
| m&p-Xylene                   | 180     | ug/L   | 20.0                      | 5.4                      | 2             |                | 10/23/10 21:55 | 179601-23-1 |      |
| o-Xylene                     | 102     | ug/L   | 10.0                      | 3.4                      | 2             |                | 10/23/10 21:55 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 103     | %  | 70-130                    |                          | 2             |                | 10/23/10 21:55 | 1868-53-7   |      |
| Toluene-d8 (S)               | 102     | %  | 70-130                    |                          | 2             |                | 10/23/10 21:55 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 97      | %  | 70-130                    |                          | 2             |                | 10/23/10 21:55 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 107     | %  | 70-130                    |                          | 2             |                | 10/23/10 21:55 | 17060-07-0  |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-14                |         | Lab ID: 9280235013                                       |              | Collected: 10/19/10 09:55 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 14:17           | 10/22/10 03:14 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 102     | %  | 60-140       |                           | 1  | 10/21/10 14:17           | 10/22/10 03:14 | 301-79-56     |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 62.0                      | 1  |                          | 10/23/10 22:13 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 4.5                       | 1  |                          | 10/23/10 22:13 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/23/10 22:13 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 48.0                      | 1  |                          | 10/23/10 22:13 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 27.0                      | 1  |                          | 10/23/10 22:13 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 9.0                       | 1  |                          | 10/23/10 22:13 | 762-75-4      |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/23/10 22:13 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 2.7                       | 1  |                          | 10/23/10 22:13 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 170                       | 1  |                          | 10/23/10 22:13 | 64-17-5       |      |
| Ethylbenzene                 | 2.5J    | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/23/10 22:13 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 4.6                       | 1  |                          | 10/23/10 22:13 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/23/10 22:13 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/23/10 22:13 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/23/10 22:13 | 108-88-3      |      |
| m&p-Xylene                   | 5.6J    | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/23/10 22:13 | 179601-23-1   |      |
| o-Xylene                     | 3.9J    | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/23/10 22:13 | 95-47-6       |      |
| Dibromofluoromethane (S)     | 102     | %  | 70-130       |                           | 1  |                          | 10/23/10 22:13 | 1868-53-7     |      |
| Toluene-d8 (S)               | 101     | %  | 70-130       |                           | 1  |                          | 10/23/10 22:13 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)     | 95      | %  | 70-130       |                           | 1  |                          | 10/23/10 22:13 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 106     | %  | 70-130       |                           | 1  |                          | 10/23/10 22:13 | 17060-07-0    |      |

| Sample: MW-15                |         | Lab ID: 9280235014                                       |              | Collected: 10/19/10 10:30 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 14:18           | 10/22/10 03:32 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 106     | %  | 60-140       |                           | 1  | 10/21/10 14:18           | 10/22/10 03:32 | 301-79-56     |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 62.0                      | 1  |                          | 10/23/10 22:31 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 4.5                       | 1  |                          | 10/23/10 22:31 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/23/10 22:31 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 48.0                      | 1  |                          | 10/23/10 22:31 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 27.0                      | 1  |                          | 10/23/10 22:31 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 9.0                       | 1  |                          | 10/23/10 22:31 | 762-75-4      |      |
| 1,2-Dichloroethane           | 3.0J    | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/23/10 22:31 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 2.7                       | 1  |                          | 10/23/10 22:31 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 170                       | 1  |                          | 10/23/10 22:31 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/23/10 22:31 | 100-41-4      |      |

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## ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-15              |         | Lab ID: 9280235014          |              | Collected: 10/19/10 10:30 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|----------------------------|---------|-----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                 | Results | Units                       | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV Oxygenates</b> |         | Analytical Method: EPA 8260 |              |                           |    |                          |                |               |      |
| Ethyl-tert-butyl ether     | ND      | ug/L                        | 10.0         | 4.6                       | 1  |                          | 10/23/10 22:31 | 637-92-3      |      |
| Methyl-tert-butyl ether    | ND      | ug/L                        | 5.0          | 2.0                       | 1  |                          | 10/23/10 22:31 | 1634-04-4     |      |
| Naphthalene                | ND      | ug/L                        | 5.0          | 2.9                       | 1  |                          | 10/23/10 22:31 | 91-20-3       |      |
| Toluene                    | ND      | ug/L                        | 5.0          | 1.8                       | 1  |                          | 10/23/10 22:31 | 108-88-3      |      |
| m&p-Xylene                 | ND      | ug/L                        | 10.0         | 2.7                       | 1  |                          | 10/23/10 22:31 | 179601-23-1   |      |
| o-Xylene                   | ND      | ug/L                        | 5.0          | 1.7                       | 1  |                          | 10/23/10 22:31 | 95-47-6       |      |
| Dibromofluoromethane (S)   | 104     | %                           | 70-130       |                           | 1  |                          | 10/23/10 22:31 | 1868-53-7     |      |
| Toluene-d8 (S)             | 99      | %                           | 70-130       |                           | 1  |                          | 10/23/10 22:31 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)   | 95      | %                           | 70-130       |                           | 1  |                          | 10/23/10 22:31 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)  | 104     | %                           | 70-130       |                           | 1  |                          | 10/23/10 22:31 | 17060-07-0    |      |

| Sample: MW-16                |         | Lab ID: 9280235015                                       |              | Collected: 10/19/10 11:45 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 14:18           | 10/22/10 03:50 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 105     | %  | 60-140       |                           | 1  | 10/21/10 14:18           | 10/22/10 03:50 | 301-79-56     |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | 360     | ug/L   | 100          | 62.0                      | 1  |                          | 10/22/10 02:39 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 4.5                       | 1  |                          | 10/22/10 02:39 | 994-05-8      |      |
| Benzene                      | 246     | ug/L   | 10.0         | 2.4                       | 2  |                          | 10/23/10 11:34 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 48.0                      | 1  |                          | 10/22/10 02:39 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 27.0                      | 1  |                          | 10/22/10 02:39 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 9.0                       | 1  |                          | 10/22/10 02:39 | 762-75-4      |      |
| 1,2-Dichloroethane           | 2.5J    | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/22/10 02:39 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 2.7                       | 1  |                          | 10/22/10 02:39 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 170                       | 1  |                          | 10/22/10 02:39 | 64-17-5       |      |
| Ethylbenzene                 | 14.3    | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/22/10 02:39 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 4.6                       | 1  |                          | 10/22/10 02:39 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/22/10 02:39 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/22/10 02:39 | 91-20-3       |      |
| Toluene                      | 26.1    | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/22/10 02:39 | 108-88-3      |      |
| m&p-Xylene                   | 152     | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/22/10 02:39 | 179601-23-1   |      |
| o-Xylene                     | 77.2    | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/22/10 02:39 | 95-47-6       |      |
| Dibromofluoromethane (S)     | 114     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:39 | 1868-53-7     |      |
| Toluene-d8 (S)               | 106     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:39 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)     | 100     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:39 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 124     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:39 | 17060-07-0    |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

Sample: MW-17 Lab ID: 9280235016 Collected: 10/19/10 11:00 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-------------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020  | 0.020 | 1  | 10/21/10 14:18 | 10/22/10 04:08 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 106     | %  | 60-140 |       | 1  | 10/21/10 14:18 | 10/22/10 04:08 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |        |       |    |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100    | 62.0  | 1  |                | 10/22/10 02:58 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0   | 4.5   | 1  |                | 10/22/10 02:58 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 5.0    | 1.2   | 1  |                | 10/22/10 02:58 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100    | 48.0  | 1  |                | 10/22/10 02:58 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100    | 27.0  | 1  |                | 10/22/10 02:58 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0   | 9.0   | 1  |                | 10/22/10 02:58 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0    | 1.3   | 1  |                | 10/22/10 02:58 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0    | 2.7   | 1  |                | 10/22/10 02:58 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200    | 170   | 1  |                | 10/22/10 02:58 | 64-17-5     |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0    | 1.1   | 1  |                | 10/22/10 02:58 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0   | 4.6   | 1  |                | 10/22/10 02:58 | 637-92-3    |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0    | 2.0   | 1  |                | 10/22/10 02:58 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L   | 5.0    | 2.9   | 1  |                | 10/22/10 02:58 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 5.0    | 1.8   | 1  |                | 10/22/10 02:58 | 108-88-3    |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0   | 2.7   | 1  |                | 10/22/10 02:58 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 5.0    | 1.7   | 1  |                | 10/22/10 02:58 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 118     | %  | 70-130 |       | 1  |                | 10/22/10 02:58 | 1868-53-7   |      |
| Toluene-d8 (S)               | 102     | %  | 70-130 |       | 1  |                | 10/22/10 02:58 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 97      | %  | 70-130 |       | 1  |                | 10/22/10 02:58 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 123     | %  | 70-130 |       | 1  |                | 10/22/10 02:58 | 17060-07-0  |      |

Sample: MW-18 Lab ID: 9280235017 Collected: 10/19/10 11:10 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-----------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |           |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |           |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019  | 0.019 | 1  | 10/21/10 14:18 | 10/22/10 04:27 | 106-93-4  |      |
| 1-Chloro-2-bromopropane (S)  | 104     | %  | 60-140 |       | 1  | 10/21/10 14:18 | 10/22/10 04:27 | 301-79-56 |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |        |       |    |                |                |           |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100    | 62.0  | 1  |                | 10/22/10 03:16 | 75-85-4   |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0   | 4.5   | 1  |                | 10/22/10 03:16 | 994-05-8  |      |
| Benzene                      | ND      | ug/L   | 5.0    | 1.2   | 1  |                | 10/22/10 03:16 | 71-43-2   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100    | 48.0  | 1  |                | 10/22/10 03:16 | 624-95-3  |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100    | 27.0  | 1  |                | 10/22/10 03:16 | 75-65-0   |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0   | 9.0   | 1  |                | 10/22/10 03:16 | 762-75-4  |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0    | 1.3   | 1  |                | 10/22/10 03:16 | 107-06-2  |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0    | 2.7   | 1  |                | 10/22/10 03:16 | 108-20-3  |      |
| Ethanol                      | ND      | ug/L   | 200    | 170   | 1  |                | 10/22/10 03:16 | 64-17-5   |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0    | 1.1   | 1  |                | 10/22/10 03:16 | 100-41-4  |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-18  |         | Lab ID: 9280235017 |              | Collected: 10/19/10 11:10 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|--|---------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters   | Results | Units              | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV Oxygenates</b> Analytical Method: EPA 8260 |         |                    |              |                           |    |                          |                |               |      |
| Ethyl-tert-butyl ether                                 | ND      | ug/L               | 10.0         | 4.6                       | 1  |                          | 10/22/10 03:16 | 637-92-3      |      |
| Methyl-tert-butyl ether                                | ND      | ug/L               | 5.0          | 2.0                       | 1  |                          | 10/22/10 03:16 | 1634-04-4     |      |
| Naphthalene  | ND      | ug/L               | 5.0          | 2.9                       | 1  |                          | 10/22/10 03:16 | 91-20-3       |      |
| Toluene  | ND      | ug/L               | 5.0          | 1.8                       | 1  |                          | 10/22/10 03:16 | 108-88-3      |      |
| m&p-Xylene   | ND      | ug/L               | 10.0         | 2.7                       | 1  |                          | 10/22/10 03:16 | 179601-23-1   |      |
| o-Xylene   | ND      | ug/L               | 5.0          | 1.7                       | 1  |                          | 10/22/10 03:16 | 95-47-6       |      |
| Dibromofluoromethane (S)                               | 120     | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:16 | 1868-53-7     |      |
| Toluene-d8 (S)   | 105     | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:16 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)                               | 96      | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:16 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)                              | 127     | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:16 | 17060-07-0    |      |

| Sample: MW-19   |         | Lab ID: 9280235018 |              | Collected: 10/19/10 11:30 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|---|---------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters  | Results | Units              | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |                    |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L               | 0.020        | 0.020                     | 1  | 10/21/10 14:18           | 10/22/10 04:45 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)   | 106     | %                  | 60-140       |                           | 1  | 10/21/10 14:18           | 10/22/10 04:45 | 301-79-56     |      |
| <b>8260 MSV Oxygenates</b> Analytical Method: EPA 8260                                |         |                    |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol   | ND      | ug/L               | 100          | 62.0                      | 1  |                          | 10/22/10 03:34 | 75-85-4       |      |
| tert-Amylmethyl ether   | ND      | ug/L               | 10.0         | 4.5                       | 1  |                          | 10/22/10 03:34 | 994-05-8      |      |
| Benzene   | ND      | ug/L               | 5.0          | 1.2                       | 1  |                          | 10/22/10 03:34 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L               | 100          | 48.0                      | 1  |                          | 10/22/10 03:34 | 624-95-3      |      |
| tert-Butyl Alcohol  | ND      | ug/L               | 100          | 27.0                      | 1  |                          | 10/22/10 03:34 | 75-65-0       |      |
| tert-Butyl Formate  | ND      | ug/L               | 50.0         | 9.0                       | 1  |                          | 10/22/10 03:34 | 762-75-4      |      |
| 1,2-Dichloroethane  | ND      | ug/L               | 5.0          | 1.3                       | 1  |                          | 10/22/10 03:34 | 107-06-2      |      |
| Diisopropyl ether   | ND      | ug/L               | 5.0          | 2.7                       | 1  |                          | 10/22/10 03:34 | 108-20-3      |      |
| Ethanol   | ND      | ug/L               | 200          | 170                       | 1  |                          | 10/22/10 03:34 | 64-17-5       |      |
| Ethylbenzene  | ND      | ug/L               | 5.0          | 1.1                       | 1  |                          | 10/22/10 03:34 | 100-41-4      |      |
| Ethyl-tert-butyl ether  | ND      | ug/L               | 10.0         | 4.6                       | 1  |                          | 10/22/10 03:34 | 637-92-3      |      |
| Methyl-tert-butyl ether   | ND      | ug/L               | 5.0          | 2.0                       | 1  |                          | 10/22/10 03:34 | 1634-04-4     |      |
| Naphthalene   | ND      | ug/L               | 5.0          | 2.9                       | 1  |                          | 10/22/10 03:34 | 91-20-3       |      |
| Toluene   | ND      | ug/L               | 5.0          | 1.8                       | 1  |                          | 10/22/10 03:34 | 108-88-3      |      |
| m&p-Xylene  | ND      | ug/L               | 10.0         | 2.7                       | 1  |                          | 10/22/10 03:34 | 179601-23-1   |      |
| o-Xylene  | ND      | ug/L               | 5.0          | 1.7                       | 1  |                          | 10/22/10 03:34 | 95-47-6       |      |
| Dibromofluoromethane (S)  | 118     | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:34 | 1868-53-7     |      |
| Toluene-d8 (S)  | 106     | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:34 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)  | 94      | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:34 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)   | 127     | %                  | 70-130       |                           | 1  |                          | 10/22/10 03:34 | 17060-07-0    |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-1                 |         | Lab ID: 9280235019                                       |              | Collected: 10/18/10 17:15 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 14:21           | 10/22/10 05:03 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 105     | %  | 60-140       |                           | 1  | 10/21/10 14:21           | 10/22/10 05:03 | 301-79-58     |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | 1180    | ug/L   | 100          | 62.0                      | 1  |                          | 10/22/10 02:03 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 4.5                       | 1  |                          | 10/22/10 02:03 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/22/10 02:03 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 48.0                      | 1  |                          | 10/22/10 02:03 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 27.0                      | 1  |                          | 10/22/10 02:03 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 9.0                       | 1  |                          | 10/22/10 02:03 | 762-75-4      |      |
| 1,2-Dichloroethane           | 64.2    | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/22/10 02:03 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 2.7                       | 1  |                          | 10/22/10 02:03 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 170                       | 1  |                          | 10/22/10 02:03 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/22/10 02:03 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 4.6                       | 1  |                          | 10/22/10 02:03 | 637-92-3      |      |
| Methyl-tert-butyl ether      | 5.7     | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/22/10 02:03 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/22/10 02:03 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/22/10 02:03 | 108-88-3      |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/22/10 02:03 | 179601-23-1   |      |
| o-Xylene                     | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/22/10 02:03 | 95-47-6       |      |
| Dibromofluoromethane (S)     | 118     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:03 | 1868-53-7     |      |
| Toluene-d8 (S)               | 105     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:03 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)     | 94      | %  | 70-130       |                           | 1  |                          | 10/22/10 02:03 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 129     | %  | 70-130       |                           | 1  |                          | 10/22/10 02:03 | 17060-07-0    |      |

| Sample: TW-2                 |         | Lab ID: 9280235020                                       |              | Collected: 10/19/10 10:45 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 14:21           | 10/22/10 05:22 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 106     | %  | 60-140       |                           | 1  | 10/21/10 14:21           | 10/22/10 05:22 | 301-79-58     |      |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | 95.4J   | ug/L   | 100          | 62.0                      | 1  |                          | 10/22/10 03:52 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 4.5                       | 1  |                          | 10/22/10 03:52 | 994-05-8      |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/22/10 03:52 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 48.0                      | 1  |                          | 10/22/10 03:52 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 27.0                      | 1  |                          | 10/22/10 03:52 | 75-65-0       |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 9.0                       | 1  |                          | 10/22/10 03:52 | 762-75-4      |      |
| 1,2-Dichloroethane           | 4.2J    | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/22/10 03:52 | 107-06-2      |      |
| Diisopropyl ether            | ND      | ug/L   | 5.0          | 2.7                       | 1  |                          | 10/22/10 03:52 | 108-20-3      |      |
| Ethanol                      | ND      | ug/L   | 200          | 170                       | 1  |                          | 10/22/10 03:52 | 64-17-5       |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/22/10 03:52 | 100-41-4      |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-2               |         | Lab ID: 9280235020          | Collected: 10/19/10 10:45 | Received: 10/20/10 14:20 | Matrix: Water |          |                |             |      |  |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|--|
| Parameters                 | Results | Units                       | Report Limit              | MDL                      | DF            | Prepared | Analyzed       | CAS No.     | Qual |  |
| <b>8260 MSV Oxygenates</b> |         | Analytical Method: EPA 8260 |                           |                          |               |          |                |             |      |  |
| Ethyl-tert-butyl ether     | ND      | ug/L                        | 10.0                      | 4.6                      | 1             |          | 10/22/10 03:52 | 637-92-3    |      |  |
| Methyl-tert-butyl ether    | ND      | ug/L                        | 5.0                       | 2.0                      | 1             |          | 10/22/10 03:52 | 1634-04-4   |      |  |
| Naphthalene                | ND      | ug/L                        | 5.0                       | 2.9                      | 1             |          | 10/22/10 03:52 | 91-20-3     |      |  |
| Toluene                    | 3.4J    | ug/L                        | 5.0                       | 1.8                      | 1             |          | 10/22/10 03:52 | 108-88-3    |      |  |
| m&p-Xylene                 | 2.8J    | ug/L                        | 10.0                      | 2.7                      | 1             |          | 10/22/10 03:52 | 179601-23-1 |      |  |
| o-Xylene                   | ND      | ug/L                        | 5.0                       | 1.7                      | 1             |          | 10/22/10 03:52 | 95-47-6     |      |  |
| Dibromofluoromethane (S)   | 125     | %                           | 70-130                    |                          | 1             |          | 10/22/10 03:52 | 1868-53-7   |      |  |
| Toluene-d8 (S)             | 105     | %                           | 70-130                    |                          | 1             |          | 10/22/10 03:52 | 2037-26-5   |      |  |
| 4-Bromofluorobenzene (S)   | 97      | %                           | 70-130                    |                          | 1             |          | 10/22/10 03:52 | 460-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)  | 134     | %                           | 70-130                    |                          | 1             |          | 10/22/10 03:52 | 17060-07-0  | S3   |  |

| Sample: TW-3                 |         | Lab ID: 9280235021                                       | Collected: 10/19/10 09:15 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:21 | 10/22/10 05:40 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 104     | %  | 60-140                    |                          | 1             | 10/21/10 14:21 | 10/22/10 05:40 | 301-79-56   |      |  |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| tert-Amyl Alcohol            | ND      | ug/L   | 100                       | 62.0                     | 1             |                | 10/22/10 04:10 | 75-85-4     |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/22/10 04:10 | 994-05-8    |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/22/10 04:10 | 71-43-2     |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/22/10 04:10 | 624-95-3    |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/22/10 04:10 | 75-85-0     |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/22/10 04:10 | 762-75-4    |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/22/10 04:10 | 107-06-2    |      |  |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/22/10 04:10 | 108-20-3    |      |  |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/22/10 04:10 | 64-17-5     |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/22/10 04:10 | 100-41-4    |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0                      | 4.6                      | 1             |                | 10/22/10 04:10 | 637-92-3    |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/22/10 04:10 | 1634-04-4   |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/22/10 04:10 | 91-20-3     |      |  |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/22/10 04:10 | 108-88-3    |      |  |
| m&p-Xylene                   | ND      | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/22/10 04:10 | 179601-23-1 |      |  |
| o-Xylene                     | ND      | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/22/10 04:10 | 95-47-6     |      |  |
| Dibromofluoromethane (S)     | 123     | %  | 70-130                    |                          | 1             |                | 10/22/10 04:10 | 1868-53-7   |      |  |
| Toluene-d8 (S)               | 106     | %  | 70-130                    |                          | 1             |                | 10/22/10 04:10 | 2037-26-5   |      |  |
| 4-Bromofluorobenzene (S)     | 96      | %  | 70-130                    |                          | 1             |                | 10/22/10 04:10 | 460-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)    | 129     | %  | 70-130                    |                          | 1             |                | 10/22/10 04:10 | 17060-07-0  |      |  |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-4                 |           | Lab ID: 9280235022                                       | Collected: 10/19/10 09:35 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |
|------------------------------|-----------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results   | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.     | Qual |
|                              |           |  | Limit                     | MDL                      | DF            |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L   |  | 0.019                     | 0.019                    | 1             | 10/21/10 14:21 | 10/22/10 05:58 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 103 %     |  | 60-140                    |                          | 1             | 10/21/10 14:21 | 10/22/10 05:58 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | ND ug/L   |  | 100                       | 62.0                     | 1             |                | 10/29/10 14:36 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0                      | 4.5                      | 1             |                | 10/29/10 14:36 | 994-05-8    |      |
| Benzene                      | ND ug/L   |  | 5.0                       | 1.2                      | 1             |                | 10/29/10 14:36 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100                       | 48.0                     | 1             |                | 10/29/10 14:36 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND ug/L   |  | 100                       | 27.0                     | 1             |                | 10/29/10 14:36 | 75-65-0     |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0                      | 9.0                      | 1             |                | 10/29/10 14:36 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND ug/L   |  | 5.0                       | 1.3                      | 1             |                | 10/29/10 14:36 | 107-06-2    |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0                       | 2.7                      | 1             |                | 10/29/10 14:36 | 108-20-3    |      |
| Ethanol                      | ND ug/L   |  | 200                       | 170                      | 1             |                | 10/29/10 14:36 | 64-17-5     |      |
| Ethylbenzene                 | ND ug/L   |  | 5.0                       | 1.1                      | 1             |                | 10/29/10 14:36 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND ug/L   |  | 10.0                      | 4.6                      | 1             |                | 10/29/10 14:36 | 637-92-3    |      |
| Methyl-tert-butyl ether      | 2.9J ug/L |  | 5.0                       | 2.0                      | 1             |                | 10/29/10 14:36 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L   |  | 5.0                       | 2.9                      | 1             |                | 10/29/10 14:36 | 91-20-3     |      |
| Toluene                      | ND ug/L   |  | 5.0                       | 1.8                      | 1             |                | 10/29/10 14:36 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L   |  | 10.0                      | 2.7                      | 1             |                | 10/29/10 14:36 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L   |  | 5.0                       | 1.7                      | 1             |                | 10/29/10 14:36 | 95-47-6     |      |
| Dibromofluoromethane (S)     | 98 %      |  | 70-130                    |                          | 1             |                | 10/29/10 14:36 | 1868-53-7   |      |
| Toluene-d8 (S)               | 97 %      |  | 70-130                    |                          | 1             |                | 10/29/10 14:36 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)     | 99 %      |  | 70-130                    |                          | 1             |                | 10/29/10 14:36 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)    | 96 %      |  | 70-130                    |                          | 1             |                | 10/29/10 14:36 | 17080-07-0  |      |

| Sample: TW-5                 |           | Lab ID: 9280235023                                       | Collected: 10/19/10 10:10 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |
|------------------------------|-----------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                   | Results   | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.   | Qual |
|                              |           |  | Limit                     | MDL                      | DF            |                |                |           |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |           |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L   |  | 0.020                     | 0.020                    | 1             | 10/21/10 14:21 | 10/22/10 06:16 | 106-93-4  |      |
| 1-Chloro-2-bromopropane (S)  | 102 %     |  | 60-140                    |                          | 1             | 10/21/10 14:21 | 10/22/10 06:16 | 301-79-56 |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |                           |                          |               |                |                |           |      |
| tert-Amyl Alcohol            | ND ug/L   |  | 100                       | 62.0                     | 1             |                | 10/29/10 14:55 | 75-85-4   |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0                      | 4.5                      | 1             |                | 10/29/10 14:55 | 994-05-8  |      |
| Benzene                      | ND ug/L   |  | 5.0                       | 1.2                      | 1             |                | 10/29/10 14:55 | 71-43-2   |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100                       | 48.0                     | 1             |                | 10/29/10 14:55 | 624-95-3  |      |
| tert-Butyl Alcohol           | ND ug/L   |  | 100                       | 27.0                     | 1             |                | 10/29/10 14:55 | 75-65-0   |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0                      | 9.0                      | 1             |                | 10/29/10 14:55 | 762-75-4  |      |
| 1,2-Dichloroethane           | 1.7J ug/L |  | 5.0                       | 1.3                      | 1             |                | 10/29/10 14:55 | 107-06-2  |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0                       | 2.7                      | 1             |                | 10/29/10 14:55 | 108-20-3  |      |
| Ethanol                      | ND ug/L   |  | 200                       | 170                      | 1             |                | 10/29/10 14:55 | 64-17-5   |      |
| Ethylbenzene                 | ND ug/L   |  | 5.0                       | 1.1                      | 1             |                | 10/29/10 14:55 | 100-41-4  |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-6               |         | Lab ID: 9280235023          |        | Collected: 10/19/10 10:10 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|----------------------------|---------|-----------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                 | Results | Units                       | Report |                           |    | Prepared                 | Analyzed       | CAS No.       | Qual |
|                            |         |                             | Limit  | MDL                       | DF |                          |                |               |      |
| <b>8260 MSV Oxygenates</b> |         | Analytical Method: EPA 8260 |        |                           |    |                          |                |               |      |
| Ethyl-tert-butyl ether     | ND ug/L |                             | 10.0   | 4.6                       | 1  |                          | 10/29/10 14:55 | 637-92-3      |      |
| Methyl-tert-butyl ether    | ND ug/L |                             | 5.0    | 2.0                       | 1  |                          | 10/29/10 14:55 | 1634-04-4     |      |
| Naphthalene                | ND ug/L |                             | 5.0    | 2.9                       | 1  |                          | 10/29/10 14:55 | 91-20-3       |      |
| Toluene                    | ND ug/L |                             | 5.0    | 1.8                       | 1  |                          | 10/29/10 14:55 | 108-88-3      |      |
| m&p-Xylene                 | ND ug/L |                             | 10.0   | 2.7                       | 1  |                          | 10/29/10 14:55 | 179601-23-1   |      |
| o-Xylene                   | ND ug/L |                             | 5.0    | 1.7                       | 1  |                          | 10/29/10 14:55 | 95-47-6       |      |
| Dibromofluoromethane (S)   | 96 %    |                             | 70-130 |                           | 1  |                          | 10/29/10 14:55 | 1868-53-7     |      |
| Toluene-d8 (S)             | 104 %   |                             | 70-130 |                           | 1  |                          | 10/29/10 14:55 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)   | 102 %   |                             | 70-130 |                           | 1  |                          | 10/29/10 14:55 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)  | 95 %    |                             | 70-130 |                           | 1  |                          | 10/29/10 14:55 | 17060-07-0    |      |

| Sample: TW-6                 |           | Lab ID: 9280235024                                       |        | Collected: 10/19/10 11:40 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|-----------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results   | Units  | Report |                           |    | Prepared                 | Analyzed       | CAS No.       | Qual |
|                              |           |  | Limit  | MDL                       | DF |                          |                |               |      |
| <b>8011 GCS EDB and DBCP</b> |           | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L   |  | 0.020  | 0.020                     | 1  | 10/21/10 14:22           | 10/22/10 06:34 | 108-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 100 %     |  | 60-140 |                           | 1  | 10/21/10 14:22           | 10/22/10 06:34 | 301-79-56     |      |
| <b>8260 MSV Oxygenates</b>   |           | Analytical Method: EPA 8260                              |        |                           |    |                          |                |               |      |
| tert-Amyl Alcohol            | ND ug/L   |  | 100    | 62.0                      | 1  |                          | 10/29/10 15:13 | 75-85-4       |      |
| tert-Amylmethyl ether        | ND ug/L   |  | 10.0   | 4.5                       | 1  |                          | 10/29/10 15:13 | 994-05-8      |      |
| Benzene                      | 1.5J ug/L |  | 5.0    | 1.2                       | 1  |                          | 10/29/10 15:13 | 71-43-2       |      |
| 3,3-Dimethyl-1-Butanol       | ND ug/L   |  | 100    | 48.0                      | 1  |                          | 10/29/10 15:13 | 624-95-3      |      |
| tert-Butyl Alcohol           | ND ug/L   |  | 100    | 27.0                      | 1  |                          | 10/29/10 15:13 | 75-85-0       |      |
| tert-Butyl Formate           | ND ug/L   |  | 50.0   | 9.0                       | 1  |                          | 10/29/10 15:13 | 762-75-4      |      |
| 1,2-Dichloroethane           | 5.1 ug/L  |  | 5.0    | 1.3                       | 1  |                          | 10/29/10 15:13 | 107-06-2      |      |
| Diisopropyl ether            | ND ug/L   |  | 5.0    | 2.7                       | 1  |                          | 10/29/10 15:13 | 108-20-3      |      |
| Ethanol                      | ND ug/L   |  | 200    | 170                       | 1  |                          | 10/29/10 15:13 | 64-17-5       |      |
| Ethylbenzene                 | ND ug/L   |  | 5.0    | 1.1                       | 1  |                          | 10/29/10 15:13 | 100-41-4      |      |
| Ethyl-tert-butyl ether       | ND ug/L   |  | 10.0   | 4.6                       | 1  |                          | 10/29/10 15:13 | 637-92-3      |      |
| Methyl-tert-butyl ether      | ND ug/L   |  | 5.0    | 2.0                       | 1  |                          | 10/29/10 15:13 | 1634-04-4     |      |
| Naphthalene                  | ND ug/L   |  | 5.0    | 2.9                       | 1  |                          | 10/29/10 15:13 | 91-20-3       |      |
| Toluene                      | ND ug/L   |  | 5.0    | 1.8                       | 1  |                          | 10/29/10 15:13 | 108-88-3      |      |
| m&p-Xylene                   | ND ug/L   |  | 10.0   | 2.7                       | 1  |                          | 10/29/10 15:13 | 179601-23-1   |      |
| o-Xylene                     | ND ug/L   |  | 5.0    | 1.7                       | 1  |                          | 10/29/10 15:13 | 95-47-6       |      |
| Dibromofluoromethane (S)     | 98 %      |  | 70-130 |                           | 1  |                          | 10/29/10 15:13 | 1868-53-7     |      |
| Toluene-d8 (S)               | 103 %     |  | 70-130 |                           | 1  |                          | 10/29/10 15:13 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)     | 98 %      |  | 70-130 |                           | 1  |                          | 10/29/10 15:13 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)    | 95 %      |  | 70-130 |                           | 1  |                          | 10/29/10 15:13 | 17060-07-0    |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-7                 |         | Lab ID: 9280235026                                       | Collected: 10/19/10 10:55 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 14:22 | 10/22/10 06:53 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 104     | %  | 60-140                    |                          | 1             | 10/21/10 14:22 | 10/22/10 06:53 | 301-79-56   |      |  |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| tert-Amyl Alcohol            | ND      | ug/L   | 100                       | 62.0                     | 1             |                | 10/29/10 15:32 | 75-85-4     |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/29/10 15:32 | 994-05-8    |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/29/10 15:32 | 71-43-2     |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/29/10 15:32 | 624-95-3    |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/29/10 15:32 | 75-85-0     |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/29/10 15:32 | 762-75-4    |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/29/10 15:32 | 107-06-2    |      |  |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/29/10 15:32 | 108-20-3    |      |  |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/29/10 15:32 | 64-17-5     |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/29/10 15:32 | 100-41-4    |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0                      | 4.6                      | 1             |                | 10/29/10 15:32 | 637-92-3    |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/29/10 15:32 | 1634-04-4   |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/29/10 15:32 | 91-20-3     |      |  |
| Toluene                      | 1.9J    | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/29/10 15:32 | 108-88-3    |      |  |
| m&p-Xylene                   | 3.8J    | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/29/10 15:32 | 179601-23-1 |      |  |
| o-Xylene                     | 1.8J    | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/29/10 15:32 | 95-47-6     |      |  |
| Dibromofluoromethane (S)     | 88      | %  | 70-130                    |                          | 1             |                | 10/29/10 15:32 | 1868-53-7   |      |  |
| Toluene-d8 (S)               | 101     | %  | 70-130                    |                          | 1             |                | 10/29/10 15:32 | 2037-26-5   |      |  |
| 4-Bromofluorobenzene (S)     | 100     | %  | 70-130                    |                          | 1             |                | 10/29/10 15:32 | 460-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)    | 94      | %  | 70-130                    |                          | 1             |                | 10/29/10 15:32 | 17060-07-0  |      |  |

| Sample: TW-8                 |         | Lab ID: 9280235026                                       | Collected: 10/19/10 11:25 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |           |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019                     | 0.019                    | 1             | 10/21/10 13:58 | 10/22/10 07:26 | 106-93-4  |      |  |
| 1-Chloro-2-bromopropane (S)  | 89      | %  | 60-140                    |                          | 1             | 10/21/10 13:58 | 10/22/10 07:26 | 301-79-56 |      |  |
| <b>8260 MSV Oxygenates</b>   |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |           |      |  |
| tert-Amyl Alcohol            | ND      | ug/L   | 100                       | 62.0                     | 1             |                | 10/29/10 15:50 | 75-85-4   |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 4.5                      | 1             |                | 10/29/10 15:50 | 994-05-8  |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/29/10 15:50 | 71-43-2   |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 48.0                     | 1             |                | 10/29/10 15:50 | 624-95-3  |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100                       | 27.0                     | 1             |                | 10/29/10 15:50 | 75-85-0   |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 9.0                      | 1             |                | 10/29/10 15:50 | 762-75-4  |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/29/10 15:50 | 107-06-2  |      |  |
| Diisopropyl ether            | ND      | ug/L   | 5.0                       | 2.7                      | 1             |                | 10/29/10 15:50 | 108-20-3  |      |  |
| Ethanol                      | ND      | ug/L   | 200                       | 170                      | 1             |                | 10/29/10 15:50 | 64-17-5   |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/29/10 15:50 | 100-41-4  |      |  |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-8               |         | Lab ID: 9280235026          | Collected: 10/19/10 11:25 | Received: 10/20/10 14:20 | Matrix: Water |          |                |             |      |  |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|--|
| Parameters                 | Results | Units                       | Report Limit              | MDL                      | DF            | Prepared | Analyzed       | CAS No.     | Qual |  |
| <b>8260 MSV Oxygenates</b> |         | Analytical Method: EPA 8260 |                           |                          |               |          |                |             |      |  |
| Ethyl-tert-butyl ether     | ND ug/L |                             | 10.0                      | 4.6                      | 1             |          | 10/29/10 15:50 | 637-92-3    |      |  |
| Methyl-tert-butyl ether    | ND ug/L |                             | 5.0                       | 2.0                      | 1             |          | 10/29/10 15:50 | 1834-04-4   |      |  |
| Naphthalene                | ND ug/L |                             | 5.0                       | 2.9                      | 1             |          | 10/29/10 15:50 | 91-20-3     |      |  |
| Toluene                    | ND ug/L |                             | 5.0                       | 1.8                      | 1             |          | 10/29/10 15:50 | 108-88-3    |      |  |
| m&p-Xylene                 | ND ug/L |                             | 10.0                      | 2.7                      | 1             |          | 10/29/10 15:50 | 179801-23-1 |      |  |
| o-Xylene                   | ND ug/L |                             | 5.0                       | 1.7                      | 1             |          | 10/29/10 15:50 | 95-47-6     |      |  |
| Dibromofluoromethane (S)   | 93 %    |                             | 70-130                    |                          | 1             |          | 10/29/10 15:50 | 1868-53-7   |      |  |
| Toluene-d8 (S)             | 100 %   |                             | 70-130                    |                          | 1             |          | 10/29/10 15:50 | 2037-28-5   |      |  |
| 4-Bromofluorobenzene (S)   | 104 %   |                             | 70-130                    |                          | 1             |          | 10/29/10 15:50 | 480-00-4    |      |  |
| 1,2-Dichloroethane-d4 (S)  | 96 %    |                             | 70-130                    |                          | 1             |          | 10/29/10 15:50 | 17060-07-0  |      |  |

| Sample: MW-6 LEAD   |         | Lab ID: 9280235027                                       | Collected: 10/18/10 16:35 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|---------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 02:30 | 7439-92-1 |      |  |

| Sample: MW-7 LEAD   |         | Lab ID: 9280235028                                       | Collected: 10/18/10 16:15 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|---------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 02:33 | 7439-92-1 |      |  |

| Sample: MW-8 LEAD   |         | Lab ID: 9280235029                                       | Collected: 10/18/10 15:35 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|---------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 02:37 | 7439-92-1 |      |  |

| Sample: MW-9 LEAD   |         | Lab ID: 9280235030                                       | Collected: 10/18/10 13:50 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|---------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 02:40 | 7439-92-1 |      |  |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

Sample: MW-10 LEAD Lab ID: 9280235031 Collected: 10/18/10 14:25 Received: 10/20/10 14:20 Matrix: Water

| Parameters  | Results | Units | Report |     |    | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-----|----|----------------|----------------|-----------|------|
|   |         |       | Limit  | MDL | DF |                |                |           |      |
| 6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 |         |       |        |     |    |                |                |           |      |
| Lead  | ND ug/L |       | 5.0    | 4.0 | 1  | 10/21/10 11:30 | 10/23/10 02:44 | 7439-92-1 |      |

Sample: MW-11 LEAD Lab ID: 9280235032 Collected: 10/18/10 16:05 Received: 10/20/10 14:20 Matrix: Water

| Parameters  | Results | Units | Report |     |    | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-----|----|----------------|----------------|-----------|------|
|   |         |       | Limit  | MDL | DF |                |                |           |      |
| 6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 |         |       |        |     |    |                |                |           |      |
| Lead  | ND ug/L |       | 5.0    | 4.0 | 1  | 10/21/10 11:30 | 10/23/10 02:57 | 7439-92-1 |      |

Sample: MW-12 LEAD Lab ID: 9280235033 Collected: 10/18/10 15:10 Received: 10/20/10 14:20 Matrix: Water

| Parameters  | Results | Units | Report |     |    | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-----|----|----------------|----------------|-----------|------|
|   |         |       | Limit  | MDL | DF |                |                |           |      |
| 6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 |         |       |        |     |    |                |                |           |      |
| Lead  | ND ug/L |       | 5.0    | 4.0 | 1  | 10/21/10 11:30 | 10/23/10 03:01 | 7439-92-1 |      |

Sample: MW-13 LEAD Lab ID: 9280235034 Collected: 10/18/10 15:30 Received: 10/20/10 14:20 Matrix: Water

| Parameters  | Results | Units | Report |     |    | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-----|----|----------------|----------------|-----------|------|
|   |         |       | Limit  | MDL | DF |                |                |           |      |
| 6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 |         |       |        |     |    |                |                |           |      |
| Lead  | ND ug/L |       | 5.0    | 4.0 | 1  | 10/21/10 11:30 | 10/23/10 03:04 | 7439-92-1 |      |

Sample: MW-14 LEAD Lab ID: 9280235035 Collected: 10/18/10 16:10 Received: 10/20/10 14:20 Matrix: Water

| Parameters  | Results | Units | Report |     |    | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-----|----|----------------|----------------|-----------|------|
|   |         |       | Limit  | MDL | DF |                |                |           |      |
| 6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 |         |       |        |     |    |                |                |           |      |
| Lead  | ND ug/L |       | 5.0    | 4.0 | 1  | 10/21/10 11:30 | 10/23/10 03:07 | 7439-92-1 |      |

Sample: MW-15 LEAD Lab ID: 9280235036 Collected: 10/18/10 15:45 Received: 10/20/10 14:20 Matrix: Water

| Parameters  | Results | Units | Report |     |    | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-----|----|----------------|----------------|-----------|------|
|   |         |       | Limit  | MDL | DF |                |                |           |      |
| 6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 |         |       |        |     |    |                |                |           |      |
| Lead  | ND ug/L |       | 5.0    | 4.0 | 1  | 10/21/10 11:30 | 10/23/10 03:11 | 7439-92-1 |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: MW-16 LEAD  |         | Lab ID: 9280235037                                       | Collected: 10/18/10 14:45 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|---------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND      | ug/L   | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:14 | 7439-92-1 |      |  |
| Sample: MW-17 LEAD  |         | Lab ID: 9280235038                                       | Collected: 10/18/10 13:00 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | 4.3J    | ug/L   | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:17 | 7439-92-1 |      |  |
| Sample: MW-18 LEAD  |         | Lab ID: 9280235039                                       | Collected: 10/18/10 15:10 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND      | ug/L   | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:21 | 7439-92-1 |      |  |
| Sample: MW-19 LEAD  |         | Lab ID: 9280235040                                       | Collected: 10/18/10 14:00 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND      | ug/L   | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:24 | 7439-92-1 |      |  |
| Sample: TW-1 LEAD   |         | Lab ID: 9280235041                                       | Collected: 10/18/10 12:10 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND      | ug/L   | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:28 | 7439-92-1 |      |  |
| Sample: TW-2 LEAD   |         | Lab ID: 9280235042                                       | Collected: 10/18/10 12:05 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND      | ug/L   | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:42 | 7439-92-1 |      |  |

Date: 11/02/2010 07:59 AM

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: TW-3 LEAD   |         | Lab ID: 9280235043                                       | Collected: 10/18/10 13:05 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
|---------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|--|
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/21/10 11:30 | 10/23/10 03:47 | 7439-92-1 |      |  |
| Sample: TW-4 LEAD   |         | Lab ID: 9280235044                                       | Collected: 10/18/10 14:00 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/22/10 11:15 | 10/26/10 21:47 | 7439-92-1 |      |  |
| Sample: TW-5 LEAD   |         | Lab ID: 9280235045                                       | Collected: 10/18/10 14:50 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/22/10 11:15 | 10/26/10 21:51 | 7439-92-1 |      |  |
| Sample: TW-6 LEAD   |         | Lab ID: 9280235046                                       | Collected: 10/18/10 14:25 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/22/10 11:15 | 10/26/10 21:55 | 7439-92-1 |      |  |
| Sample: TW-7 LEAD   |         | Lab ID: 9280235047                                       | Collected: 10/18/10 12:50 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/22/10 11:15 | 10/26/10 22:08 | 7439-92-1 |      |  |
| Sample: TW-8 LEAD   |         | Lab ID: 9280235048                                       | Collected: 10/18/10 13:40 | Received: 10/20/10 14:20 | Matrix: Water |                |                |           |      |  |
| Parameters          | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.   | Qual |  |
| <b>6010 MET ICP</b> |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |               |                |                |           |      |  |
| Lead                | ND ug/L |  | 5.0                       | 4.0                      | 1             | 10/22/10 11:15 | 10/26/10 22:14 | 7439-92-1 |      |  |

Date: 11/02/2010 07:59 AM

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: WSW-1                |         | Lab ID: 9280235049                                       |              | Collected: 10/19/10 14:05 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 13:57           | 10/22/10 02:06 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 86      | %  | 60-140       |                           | 1  | 10/21/10 13:57           | 10/22/10 02:06 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/21/10 15:05 | 71-43-2       |      |
| 1,2-Dichloroethane           | 2.1J    | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/21/10 15:05 | 107-06-2      |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/21/10 15:05 | 100-41-4      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/21/10 15:05 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/21/10 15:05 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/21/10 15:05 | 108-88-3      |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/21/10 15:05 | 179601-23-1   |      |
| o-Xylene                     | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/21/10 15:05 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)     | 96      | %  | 70-130       |                           | 1  |                          | 10/21/10 15:05 | 460-00-4      |      |
| Dibromofluoromethane (S)     | 102     | %  | 70-130       |                           | 1  |                          | 10/21/10 15:05 | 1868-53-7     |      |
| 1,2-Dichloroethane-d4 (S)    | 99      | %  | 70-130       |                           | 1  |                          | 10/21/10 15:05 | 17060-07-0    |      |
| Toluene-d8 (S)               | 94      | %  | 70-130       |                           | 1  |                          | 10/21/10 15:05 | 2037-26-5     |      |

| Sample: WSW-2                |         | Lab ID: 9280235060                                       |              | Collected: 10/19/10 13:55 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 13:57           | 10/22/10 02:46 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 90      | %  | 60-140       |                           | 1  | 10/21/10 13:57           | 10/22/10 02:46 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/23/10 12:29 | 71-43-2       |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/23/10 12:29 | 107-06-2      |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/23/10 12:29 | 100-41-4      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/23/10 12:29 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/23/10 12:29 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/23/10 12:29 | 108-88-3      |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/23/10 12:29 | 179601-23-1   |      |
| o-Xylene                     | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/23/10 12:29 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)     | 100     | %  | 70-130       |                           | 1  |                          | 10/23/10 12:29 | 460-00-4      |      |
| Dibromofluoromethane (S)     | 101     | %  | 70-130       |                           | 1  |                          | 10/23/10 12:29 | 1868-53-7     |      |
| 1,2-Dichloroethane-d4 (S)    | 100     | %  | 70-130       |                           | 1  |                          | 10/23/10 12:29 | 17060-07-0    |      |
| Toluene-d8 (S)               | 100     | %  | 70-130       |                           | 1  |                          | 10/23/10 12:29 | 2037-26-5     |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

Sample: WSW-3 Lab ID: 9280235051 Collected: 10/19/10 13:00 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-------------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L |  | 0.019  | 0.019 | 1  | 10/21/10 13:57 | 10/22/10 03:06 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 85 %    |  | 60-140 |       | 1  | 10/21/10 13:57 | 10/22/10 03:06 | 301-79-56   |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |        |       |    |                |                |             |      |
| Benzene                      | ND ug/L |  | 5.0    | 1.2   | 1  |                | 10/23/10 12:47 | 71-43-2     |      |
| 1,2-Dichloroethane           | ND ug/L |  | 5.0    | 1.3   | 1  |                | 10/23/10 12:47 | 107-06-2    |      |
| Ethylbenzene                 | ND ug/L |  | 5.0    | 1.1   | 1  |                | 10/23/10 12:47 | 100-41-4    |      |
| Methyl-tert-butyl ether      | ND ug/L |  | 5.0    | 2.0   | 1  |                | 10/23/10 12:47 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L |  | 5.0    | 2.9   | 1  |                | 10/23/10 12:47 | 91-20-3     |      |
| Toluene                      | ND ug/L |  | 5.0    | 1.8   | 1  |                | 10/23/10 12:47 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L |  | 10.0   | 2.7   | 1  |                | 10/23/10 12:47 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L |  | 5.0    | 1.7   | 1  |                | 10/23/10 12:47 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 100 %   |  | 70-130 |       | 1  |                | 10/23/10 12:47 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 100 %   |  | 70-130 |       | 1  |                | 10/23/10 12:47 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 98 %    |  | 70-130 |       | 1  |                | 10/23/10 12:47 | 17060-07-0  |      |
| Toluene-d8 (S)               | 98 %    |  | 70-130 |       | 1  |                | 10/23/10 12:47 | 2037-26-5   |      |

Sample: WSW-4 Lab ID: 9280235052 Collected: 10/19/10 12:45 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-------------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L |  | 0.020  | 0.020 | 1  | 10/21/10 13:57 | 10/22/10 03:26 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 100 %   |  | 60-140 |       | 1  | 10/21/10 13:57 | 10/22/10 03:26 | 301-79-56   |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |        |       |    |                |                |             |      |
| Benzene                      | ND ug/L |  | 5.0    | 1.2   | 1  |                | 10/23/10 13:05 | 71-43-2     |      |
| 1,2-Dichloroethane           | ND ug/L |  | 5.0    | 1.3   | 1  |                | 10/23/10 13:05 | 107-06-2    |      |
| Ethylbenzene                 | ND ug/L |  | 5.0    | 1.1   | 1  |                | 10/23/10 13:05 | 100-41-4    |      |
| Methyl-tert-butyl ether      | ND ug/L |  | 5.0    | 2.0   | 1  |                | 10/23/10 13:05 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L |  | 5.0    | 2.9   | 1  |                | 10/23/10 13:05 | 91-20-3     |      |
| Toluene                      | ND ug/L |  | 5.0    | 1.8   | 1  |                | 10/23/10 13:05 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L |  | 10.0   | 2.7   | 1  |                | 10/23/10 13:05 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L |  | 5.0    | 1.7   | 1  |                | 10/23/10 13:05 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 98 %    |  | 70-130 |       | 1  |                | 10/23/10 13:05 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 97 %    |  | 70-130 |       | 1  |                | 10/23/10 13:05 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 100 %   |  | 70-130 |       | 1  |                | 10/23/10 13:05 | 17060-07-0  |      |
| Toluene-d8 (S)               | 100 %   |  | 70-130 |       | 1  |                | 10/23/10 13:05 | 2037-26-5   |      |



### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

Sample: WSW-5 Lab ID: 9280235053 Collected: 10/19/10 13:45 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-------------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L |  | 0.019  | 0.019 | 1  | 10/21/10 13:57 | 10/22/10 03:46 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 91 %    |  | 60-140 |       | 1  | 10/21/10 13:57 | 10/22/10 03:46 | 301-79-56   |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |        |       |    |                |                |             |      |
| Benzene                      | ND ug/L |  | 5.0    | 1.2   | 1  |                | 10/23/10 13:24 | 71-43-2     |      |
| 1,2-Dichloroethane           | ND ug/L |  | 5.0    | 1.3   | 1  |                | 10/23/10 13:24 | 107-06-2    |      |
| Ethylbenzene                 | ND ug/L |  | 5.0    | 1.1   | 1  |                | 10/23/10 13:24 | 100-41-4    |      |
| Methyl-tert-butyl ether      | ND ug/L |  | 5.0    | 2.0   | 1  |                | 10/23/10 13:24 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L |  | 5.0    | 2.9   | 1  |                | 10/23/10 13:24 | 91-20-3     |      |
| Toluene                      | ND ug/L |  | 5.0    | 1.8   | 1  |                | 10/23/10 13:24 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L |  | 10.0   | 2.7   | 1  |                | 10/23/10 13:24 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L |  | 5.0    | 1.7   | 1  |                | 10/23/10 13:24 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 97 %    |  | 70-130 |       | 1  |                | 10/23/10 13:24 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 102 %   |  | 70-130 |       | 1  |                | 10/23/10 13:24 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 102 %   |  | 70-130 |       | 1  |                | 10/23/10 13:24 | 17060-07-0  |      |
| Toluene-d8 (S)               | 102 %   |  | 70-130 |       | 1  |                | 10/23/10 13:24 | 2037-26-5   |      |

Sample: WSW-6 Lab ID: 9280235054 Collected: 10/19/10 13:30 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-------------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L |  | 0.020  | 0.020 | 1  | 10/21/10 13:57 | 10/22/10 04:06 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 88 %    |  | 60-140 |       | 1  | 10/21/10 13:57 | 10/22/10 04:06 | 301-79-56   |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |        |       |    |                |                |             |      |
| Benzene                      | ND ug/L |  | 5.0    | 1.2   | 1  |                | 10/23/10 13:42 | 71-43-2     |      |
| 1,2-Dichloroethane           | ND ug/L |  | 5.0    | 1.3   | 1  |                | 10/23/10 13:42 | 107-06-2    |      |
| Ethylbenzene                 | ND ug/L |  | 5.0    | 1.1   | 1  |                | 10/23/10 13:42 | 100-41-4    |      |
| Methyl-tert-butyl ether      | ND ug/L |  | 5.0    | 2.0   | 1  |                | 10/23/10 13:42 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L |  | 5.0    | 2.9   | 1  |                | 10/23/10 13:42 | 91-20-3     |      |
| Toluene                      | ND ug/L |  | 5.0    | 1.8   | 1  |                | 10/23/10 13:42 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L |  | 10.0   | 2.7   | 1  |                | 10/23/10 13:42 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L |  | 5.0    | 1.7   | 1  |                | 10/23/10 13:42 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 96 %    |  | 70-130 |       | 1  |                | 10/23/10 13:42 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 99 %    |  | 70-130 |       | 1  |                | 10/23/10 13:42 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 97 %    |  | 70-130 |       | 1  |                | 10/23/10 13:42 | 17060-07-0  |      |
| Toluene-d8 (S)               | 105 %   |  | 70-130 |       | 1  |                | 10/23/10 13:42 | 2037-26-5   |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP

Pace Project No.: 9280235

| Sample: WSW-7                |         | Lab ID: 9280235055                                       |              | Collected: 10/19/10 14:15 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 13:57           | 10/22/10 04:26 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 89      | %  | 60-140       |                           | 1  | 10/21/10 13:57           | 10/22/10 04:26 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/23/10 14:00 | 71-43-2       |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/23/10 14:00 | 107-06-2      |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/23/10 14:00 | 100-41-4      |      |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/23/10 14:00 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/23/10 14:00 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/23/10 14:00 | 108-88-3      |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/23/10 14:00 | 179601-23-1   |      |
| o-Xylene                     | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/23/10 14:00 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)     | 96      | %  | 70-130       |                           | 1  |                          | 10/23/10 14:00 | 460-00-4      |      |
| Dibromofluoromethane (S)     | 102     | %  | 70-130       |                           | 1  |                          | 10/23/10 14:00 | 1868-53-7     |      |
| 1,2-Dichloroethane-d4 (S)    | 103     | %  | 70-130       |                           | 1  |                          | 10/23/10 14:00 | 17060-07-0    |      |
| Toluene-d8 (S)               | 100     | %  | 70-130       |                           | 1  |                          | 10/23/10 14:00 | 2037-26-5     |      |

| Sample: WSW-8                |         | Lab ID: 9280235056                                       |              | Collected: 10/19/10 14:30 |    | Received: 10/20/10 14:20 |                | Matrix: Water |      |
|------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                   | Results | Units  | Report Limit | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |              |                           |    |                          |                |               |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                     | 1  | 10/21/10 13:57           | 10/22/10 04:46 | 106-93-4      |      |
| 1-Chloro-2-bromopropane (S)  | 93      | %  | 60-140       |                           | 1  | 10/21/10 13:57           | 10/22/10 04:46 | 301-79-56     |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |              |                           |    |                          |                |               |      |
| Benzene                      | ND      | ug/L   | 5.0          | 1.2                       | 1  |                          | 10/23/10 14:19 | 71-43-2       |      |
| 1,2-Dichloroethane           | 9.2     | ug/L   | 5.0          | 1.3                       | 1  |                          | 10/23/10 14:19 | 107-06-2      |      |
| Ethylbenzene                 | ND      | ug/L   | 5.0          | 1.1                       | 1  |                          | 10/23/10 14:19 | 100-41-4      |      |
| Methyl-tert-butyl ether      | 3.6J    | ug/L   | 5.0          | 2.0                       | 1  |                          | 10/23/10 14:19 | 1634-04-4     |      |
| Naphthalene                  | ND      | ug/L   | 5.0          | 2.9                       | 1  |                          | 10/23/10 14:19 | 91-20-3       |      |
| Toluene                      | ND      | ug/L   | 5.0          | 1.8                       | 1  |                          | 10/23/10 14:19 | 108-88-3      |      |
| m&p-Xylene                   | ND      | ug/L   | 10.0         | 2.7                       | 1  |                          | 10/23/10 14:19 | 179601-23-1   |      |
| o-Xylene                     | ND      | ug/L   | 5.0          | 1.7                       | 1  |                          | 10/23/10 14:19 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)     | 96      | %  | 70-130       |                           | 1  |                          | 10/23/10 14:19 | 460-00-4      |      |
| Dibromofluoromethane (S)     | 107     | %  | 70-130       |                           | 1  |                          | 10/23/10 14:19 | 1868-53-7     |      |
| 1,2-Dichloroethane-d4 (S)    | 106     | %  | 70-130       |                           | 1  |                          | 10/23/10 14:19 | 17060-07-0    |      |
| Toluene-d8 (S)               | 103     | %  | 70-130       |                           | 1  |                          | 10/23/10 14:19 | 2037-26-5     |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: WSW-9   |         |       |              |       |    |                |                |             |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| Lab ID: 9280235057 Collected: 10/19/10 14:40 Received: 10/20/10 14:20 Matrix: Water   |         |       |              |       |    |                |                |             |      |
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 10/21/10 13:57 | 10/22/10 05:06 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)   | 92      | %     | 60-140       |       | 1  | 10/21/10 13:57 | 10/22/10 05:06 | 301-79-56   |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |             |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.2   | 1  |                | 10/23/10 14:37 | 71-43-2     |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.3   | 1  |                | 10/23/10 14:37 | 107-06-2    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.1   | 1  |                | 10/23/10 14:37 | 100-41-4    |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 10/23/10 14:37 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.9   | 1  |                | 10/23/10 14:37 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 10/23/10 14:37 | 108-88-3    |      |
| m&p-Xylene  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 10/23/10 14:37 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 10/23/10 14:37 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 97      | %     | 70-130       |       | 1  |                | 10/23/10 14:37 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 101     | %     | 70-130       |       | 1  |                | 10/23/10 14:37 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)   | 106     | %     | 70-130       |       | 1  |                | 10/23/10 14:37 | 17060-07-0  |      |
| Toluene-d8 (S)  | 100     | %     | 70-130       |       | 1  |                | 10/23/10 14:37 | 2037-26-5   |      |

| Sample: WSW-10  |         |       |              |       |    |                |                |             |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| Lab ID: 9280235058 Collected: 10/19/10 14:50 Received: 10/20/10 14:20 Matrix: Water   |         |       |              |       |    |                |                |             |      |
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 10/21/10 13:57 | 10/22/10 05:26 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)   | 91      | %     | 60-140       |       | 1  | 10/21/10 13:57 | 10/22/10 05:26 | 301-79-56   |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |             |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.2   | 1  |                | 10/23/10 14:55 | 71-43-2     |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.3   | 1  |                | 10/23/10 14:55 | 107-06-2    |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.1   | 1  |                | 10/23/10 14:55 | 100-41-4    |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 10/23/10 14:55 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.9   | 1  |                | 10/23/10 14:55 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 10/23/10 14:55 | 108-88-3    |      |
| m&p-Xylene  | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 10/23/10 14:55 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 10/23/10 14:55 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 96      | %     | 70-130       |       | 1  |                | 10/23/10 14:55 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 99      | %     | 70-130       |       | 1  |                | 10/23/10 14:55 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)   | 106     | %     | 70-130       |       | 1  |                | 10/23/10 14:55 | 17060-07-0  |      |
| Toluene-d8 (S)  | 101     | %     | 70-130       |       | 1  |                | 10/23/10 14:55 | 2037-26-5   |      |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: WSW-11               |         | Lab ID: 9280235059                                       | Collected: 10/19/10 15:00 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 13:58 | 10/22/10 05:46 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 90 %    |  | 60-140                    |                          | 1             | 10/21/10 13:58 | 10/22/10 05:46 | 301-79-56   |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 15:13 | 71-43-2     |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 15:13 | 107-06-2    |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 15:13 | 100-41-4    |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/23/10 15:13 | 1634-04-4   |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/23/10 15:13 | 91-20-3     |      |  |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/23/10 15:13 | 108-88-3    |      |  |
| m&p-Xylene                   | ND      | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/23/10 15:13 | 179601-23-1 |      |  |
| o-Xylene                     | ND      | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/23/10 15:13 | 95-47-6     |      |  |
| 4-Bromofluorobenzene (S)     | 96 %    |  | 70-130                    |                          | 1             |                | 10/23/10 15:13 | 460-00-4    |      |  |
| Dibromofluoromethane (S)     | 102 %   |  | 70-130                    |                          | 1             |                | 10/23/10 15:13 | 1868-53-7   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 104 %   |  | 70-130                    |                          | 1             |                | 10/23/10 15:13 | 17060-07-0  |      |  |
| Toluene-d8 (S)               | 102 %   |  | 70-130                    |                          | 1             |                | 10/23/10 15:13 | 2037-26-5   |      |  |

| Sample: WSW-12               |         | Lab ID: 9280235060                                       | Collected: 10/19/10 15:05 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 13:58 | 10/22/10 06:06 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 92 %    |  | 60-140                    |                          | 1             | 10/21/10 13:58 | 10/22/10 06:06 | 301-79-56   |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 15:32 | 71-43-2     |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 15:32 | 107-06-2    |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 15:32 | 100-41-4    |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/23/10 15:32 | 1634-04-4   |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/23/10 15:32 | 91-20-3     |      |  |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/23/10 15:32 | 108-88-3    |      |  |
| m&p-Xylene                   | ND      | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/23/10 15:32 | 179601-23-1 |      |  |
| o-Xylene                     | ND      | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/23/10 15:32 | 95-47-6     |      |  |
| 4-Bromofluorobenzene (S)     | 95 %    |  | 70-130                    |                          | 1             |                | 10/23/10 15:32 | 460-00-4    |      |  |
| Dibromofluoromethane (S)     | 104 %   |  | 70-130                    |                          | 1             |                | 10/23/10 15:32 | 1868-53-7   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 110 %   |  | 70-130                    |                          | 1             |                | 10/23/10 15:32 | 17060-07-0  |      |  |
| Toluene-d8 (S)               | 101 %   |  | 70-130                    |                          | 1             |                | 10/23/10 15:32 | 2037-26-5   |      |  |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Sample: WSW-13               |         | Lab ID: 9280235061                                       | Collected: 10/19/10 15:20 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 13:58 | 10/22/10 06:26 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 91      | %  | 60-140                    |                          | 1             | 10/21/10 13:58 | 10/22/10 06:26 | 301-79-56   |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 15:50 | 71-43-2     |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 15:50 | 107-06-2    |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 15:50 | 100-41-4    |      |  |
| Methyl-tert-butyl ether      | 3.2J    | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/23/10 15:50 | 1634-04-4   |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/23/10 15:50 | 91-20-3     |      |  |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/23/10 15:50 | 108-88-3    |      |  |
| m&p-Xylene                   | ND      | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/23/10 15:50 | 179601-23-1 |      |  |
| o-Xylene                     | ND      | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/23/10 15:50 | 95-47-6     |      |  |
| 4-Bromofluorobenzene (S)     | 97      | %  | 70-130                    |                          | 1             |                | 10/23/10 15:50 | 460-00-4    |      |  |
| Dibromofluoromethane (S)     | 110     | %  | 70-130                    |                          | 1             |                | 10/23/10 15:50 | 1868-53-7   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 113     | %  | 70-130                    |                          | 1             |                | 10/23/10 15:50 | 17060-07-0  |      |  |
| Toluene-d8 (S)               | 99      | %  | 70-130                    |                          | 1             |                | 10/23/10 15:50 | 2037-26-5   |      |  |

| Sample: WSW-14               |         | Lab ID: 9280235062                                       | Collected: 10/19/10 15:30 | Received: 10/20/10 14:20 | Matrix: Water |                |                |             |      |  |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|--|
| Parameters                   | Results | Units  | Report Limit              | MDL                      | DF            | Prepared       | Analyzed       | CAS No.     | Qual |  |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020                     | 0.020                    | 1             | 10/21/10 13:58 | 10/22/10 06:46 | 106-93-4    |      |  |
| 1-Chloro-2-bromopropane (S)  | 89      | %  | 60-140                    |                          | 1             | 10/21/10 13:58 | 10/22/10 06:46 | 301-79-56   |      |  |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |  |
| Benzene                      | ND      | ug/L   | 5.0                       | 1.2                      | 1             |                | 10/23/10 16:08 | 71-43-2     |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 5.0                       | 1.3                      | 1             |                | 10/23/10 16:08 | 107-06-2    |      |  |
| Ethylbenzene                 | ND      | ug/L   | 5.0                       | 1.1                      | 1             |                | 10/23/10 16:08 | 100-41-4    |      |  |
| Methyl-tert-butyl ether      | 4.0J    | ug/L   | 5.0                       | 2.0                      | 1             |                | 10/23/10 16:08 | 1634-04-4   |      |  |
| Naphthalene                  | ND      | ug/L   | 5.0                       | 2.9                      | 1             |                | 10/23/10 16:08 | 91-20-3     |      |  |
| Toluene                      | ND      | ug/L   | 5.0                       | 1.8                      | 1             |                | 10/23/10 16:08 | 108-88-3    |      |  |
| m&p-Xylene                   | ND      | ug/L   | 10.0                      | 2.7                      | 1             |                | 10/23/10 16:08 | 179601-23-1 |      |  |
| o-Xylene                     | ND      | ug/L   | 5.0                       | 1.7                      | 1             |                | 10/23/10 16:08 | 95-47-6     |      |  |
| 4-Bromofluorobenzene (S)     | 96      | %  | 70-130                    |                          | 1             |                | 10/23/10 16:08 | 460-00-4    |      |  |
| Dibromofluoromethane (S)     | 105     | %  | 70-130                    |                          | 1             |                | 10/23/10 16:08 | 1868-53-7   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 113     | %  | 70-130                    |                          | 1             |                | 10/23/10 16:08 | 17060-07-0  |      |  |
| Toluene-d8 (S)               | 100     | %  | 70-130                    |                          | 1             |                | 10/23/10 16:08 | 2037-26-5   |      |  |

### ANALYTICAL RESULTS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

Sample: WSW-16 Lab ID: 9280235063 Collected: 10/19/10 15:40 Received: 10/20/10 14:20 Matrix: Water

| Parameters                   | Results | Units  | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|------------------------------|---------|--|--------|-------|----|----------------|----------------|-------------|------|
|                              |         |  | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND ug/L |  | 0.019  | 0.019 | 1  | 10/21/10 13:58 | 10/22/10 07:06 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 91 %    |  | 60-140 |       | 1  | 10/21/10 13:58 | 10/22/10 07:06 | 301-79-56   |      |
| <b>8260 MSV</b>              |         | Analytical Method: EPA 8260                              |        |       |    |                |                |             |      |
| Benzene                      | ND ug/L |  | 5.0    | 1.2   | 1  |                | 10/23/10 16:27 | 71-43-2     |      |
| 1,2-Dichloroethane           | ND ug/L |  | 5.0    | 1.3   | 1  |                | 10/23/10 16:27 | 107-06-2    |      |
| Ethylbenzene                 | ND ug/L |  | 5.0    | 1.1   | 1  |                | 10/23/10 16:27 | 100-41-4    |      |
| Methyl-tert-butyl ether      | ND ug/L |  | 5.0    | 2.0   | 1  |                | 10/23/10 16:27 | 1634-04-4   |      |
| Naphthalene                  | ND ug/L |  | 5.0    | 2.9   | 1  |                | 10/23/10 16:27 | 91-20-3     |      |
| Toluene                      | ND ug/L |  | 5.0    | 1.8   | 1  |                | 10/23/10 16:27 | 108-88-3    |      |
| m&p-Xylene                   | ND ug/L |  | 10.0   | 2.7   | 1  |                | 10/23/10 16:27 | 179601-23-1 |      |
| o-Xylene                     | ND ug/L |  | 5.0    | 1.7   | 1  |                | 10/23/10 16:27 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 96 %    |  | 70-130 |       | 1  |                | 10/23/10 16:27 | 480-00-4    |      |
| Dibromofluoromethane (S)     | 108 %   |  | 70-130 |       | 1  |                | 10/23/10 16:27 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 113 %   |  | 70-130 |       | 1  |                | 10/23/10 16:27 | 17060-07-0  |      |
| Toluene-d8 (S)               | 97 %    |  | 70-130 |       | 1  |                | 10/23/10 16:27 | 2037-26-5   |      |

**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: OEXT/11563 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 9280235001, 9280235002, 9280235003, 9280235004, 9280235005

METHOD BLANK: 515144 Matrix: Water  
Associated Lab Samples: 9280235001, 9280235002, 9280235003, 9280235004, 9280235005

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.019           | 10/21/10 16:03 |            |
| 1-Chloro-2-bromopropane (S) | %     | 96           | 60-140          | 10/21/10 16:03 |            |

LABORATORY CONTROL SAMPLE & LCSD: 515145 515146

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .29         | 0.30       | 0.30        | 102       | 106        | 60-140       | 1   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 93        | 96         | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515147 515148

| Parameter                   | Units | 9280203002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|-----------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | .28            | .28             | 0.30      | 0.30       | 106      | 106       | 60-140       | 0       | 20   |
| 1-Chloro-2-bromopropane (S) | %     |                   |                |                 |           |            | 91       | 91        | 60-140       |         |      |

SAMPLE DUPLICATE: 515149

| Parameter                   | Units | 9280203003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 93                | 90         | 2   |         |            |

**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: OEXT/11564 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014, 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021, 9280235022, 9280235023, 9280235024, 9280235025

METHOD BLANK: 515162 Matrix: Water  
Associated Lab Samples: 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014, 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021, 9280235022, 9280235023, 9280235024, 9280235025

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 10/21/10 23:17 |            |
| 1-Chloro-2-bromopropane (S) | %     | 103          | 60-140          | 10/21/10 23:17 |            |

| Parameter                   | Units | 515163      |            |             |           | 515164     |              |     |         | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
|                             |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | .29         | 0.34       | 0.34        | 118       | 120        | 60-140       | 1   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 105       | 108        | 60-140       |     |         |            |

| Parameter                   | Units | 515165            |                | 515166          |           | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |            |
|-----------------------------|-------|-------------------|----------------|-----------------|-----------|----------|-----------|--------------|---------|------|------------|
|                             |       | 9280235006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |         |      | MSD Result |
| 1,2-Dibromoethane (EDB)     | ug/L  | 0.40              | .28            | .28             | 0.72      | 0.72     | 114       | 112          | 60-140  | 1    | 20         |
| 1-Chloro-2-bromopropane (S) | %     |                   |                |                 |           |          | 109       | 109          | 60-140  |      |            |

| Parameter                   | Units | 515167            |            | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------------|------------|-----|---------|------------|
|                             |       | 9280235010 Result | Dup Result |     |         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 107               | 103        | 1   |         |            |



**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: OEXT/11570 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 9280235026, 9280235049, 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

METHOD BLANK: 515263 Matrix: Water  
Associated Lab Samples: 9280235026, 9280235049, 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 10/22/10 01:06 |            |
| 1-Chloro-2-bromopropane (S) | %     | 85           | 60-140          | 10/22/10 01:06 |            |

LABORATORY CONTROL SAMPLE & LCSD: 515264 515265

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .29         | 0.28       | 0.28        | 98        | 96         | 60-140       | 1   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 87        | 86         | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515267 515268

| Parameter                   | Units | 9280235026 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | .28            | .28             | 0.29      | 0.29       | 104      | 104       | 60-140       | 0   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                   |                |                 |           |            | 92       | 92        | 60-140       |     |         |      |

SAMPLE DUPLICATE: 515266

| Parameter                   | Units | 9280235049 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 86                | 88         | 0   |         |            |

**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MPRP/7274 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 9280235027, 9280235028, 9280235029, 9280235030, 9280235031, 9280235032, 9280235033, 9280235034, 9280235035, 9280235036, 9280235037, 9280235038, 9280235039, 9280235040, 9280235041, 9280235042, 9280235043

METHOD BLANK: 515228 Matrix: Water  
Associated Lab Samples: 9280235027, 9280235028, 9280235029, 9280235030, 9280235031, 9280235032, 9280235033, 9280235034, 9280235035, 9280235036, 9280235037, 9280235038, 9280235039, 9280235040, 9280235041, 9280235042, 9280235043

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | ug/L  | ND           | 5.0             | 10/23/10 01:54 |            |

LABORATORY CONTROL SAMPLE: 515229

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Lead      | ug/L  | 500         | 490        | 98        | 80-120       |            |

MATRIX SPIKE SAMPLE: 515230

| Parameter | Units | 9280117003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Lead      | ug/L  | ND                | 500         | 476       | 95       | 75-125       |            |

SAMPLE DUPLICATE: 515231

| Parameter | Units | 9280117004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------------|------------|-----|---------|------------|
| Lead      | ug/L  | ND                | ND         |     | 20      |            |

**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MPRP/7281 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 9280235044, 9280235045, 9280235046, 9280235047, 9280235048

METHOD BLANK: 515876 Matrix: Water  
Associated Lab Samples: 9280235044, 9280235045, 9280235046, 9280235047, 9280235048

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | ug/L  | ND           | 5.0             | 10/26/10 20:21 |            |

LABORATORY CONTROL SAMPLE: 515877

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Lead      | ug/L  | 500         | 473        | 95        | 80-120       |            |

MATRIX SPIKE SAMPLE: 515878

| Parameter | Units | 9280295001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Lead      | ug/L  | ND                | 500         | 431       | 84       | 75-125       |            |

SAMPLE DUPLICATE: 515879

| Parameter | Units | 9280295002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------------|------------|-----|---------|------------|
| Lead      | ug/L  | ND                | ND         |     | 20      |            |

### QUALITY CONTROL DATA

Project: 378-TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MSV/12742      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV SC  
Associated Lab Samples: 9280235049

METHOD BLANK: 515246      Matrix: Water  
Associated Lab Samples: 9280235049

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 10/21/10 10:46 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 10/21/10 10:46 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 70-130          | 10/21/10 10:46 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 70-130          | 10/21/10 10:46 |            |
| Dibromofluoromethane (S)  | %     | 101          | 70-130          | 10/21/10 10:46 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          | 10/21/10 10:46 |            |

LABORATORY CONTROL SAMPLE: 515247

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 45.4       | 91        | 70-130       |            |
| Benzene                   | ug/L  | 50          | 43.5       | 87        | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 45.1       | 90        | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 90.6       | 91        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 45.4       | 91        | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 51.9       | 104       | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 45.9       | 92        | 70-130       |            |
| Toluene                   | ug/L  | 50          | 45.0       | 90        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 94        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 103       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 99        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515248      515249

| Parameter               | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual     |
|-------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|---------|-----|----------|
|                         |       | 9280214002 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |         |     |          |
| 1,2-Dichloroethane      | ug/L  | ND                | 50          | 50          | 31.6      | 49.3     | 63        | 99           | 70-130  | 44  | 30 M0,R1 |
| Benzene                 | ug/L  | ND                | 50          | 50          | 35.1      | 53.8     | 65        | 102          | 70-130  | 42  | 30 M0,R1 |
| Ethylbenzene            | ug/L  | ND                | 50          | 50          | 33.2      | 51.7     | 66        | 103          | 70-130  | 43  | 30 M0,R1 |
| m&p-Xylene              | ug/L  | ND                | 100         | 100         | 64.6      | 103      | 63        | 102          | 70-130  | 46  | 30 M0,R1 |
| Methyl-tert-butyl ether | ug/L  | ND                | 50          | 50          | 33.1      | 50.7     | 64        | 99           | 70-130  | 42  | 30 M0,R1 |
| Naphthalene             | ug/L  | ND                | 50          | 50          | 34.5      | 58.2     | 69        | 116          | 70-130  | 51  | 30 M0,R1 |
| o-Xylene                | ug/L  | ND                | 50          | 50          | 32.9      | 52.5     | 64        | 104          | 70-130  | 46  | 30 M0,R1 |

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP

Pace Project No.: 9280235

| Parameter                 | Units | 9280214002 |                | 515248          |           | 515249     |          | % Rec | % Rec  | % Rec | Limits | Max RPD | Max RPD | Qual |
|---------------------------|-------|------------|----------------|-----------------|-----------|------------|----------|-------|--------|-------|--------|---------|---------|------|
|                           |       | Result     | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec |       |        |       |        |         |         |      |
| Toluene                   | ug/L  | ND         | 50             | 50              | 33.7      | 52.4       | 67       | 104   | 70-130 | 43    | 30     | M0,R1   |         |      |
| 1,2-Dichloroethane-d4 (S) | %     |            |                |                 |           |            | 89       | 88    | 70-130 |       |        |         |         |      |
| 4-Bromofluorobenzene (S)  | %     |            |                |                 |           |            | 103      | 103   | 70-130 |       |        |         |         |      |
| Dibromofluoromethane (S)  | %     |            |                |                 |           |            | 98       | 97    | 70-130 |       |        |         |         |      |
| Toluene-d8 (S)            | %     |            |                |                 |           |            | 96       | 97    | 70-130 |       |        |         |         |      |

### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MSV12743 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

METHOD BLANK: 515298 Matrix: Water  
Associated Lab Samples: 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 10/23/10 09:25 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 10/23/10 09:25 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 96           | 70-130          | 10/23/10 09:25 |            |
| 4-Bromofluorobenzene (S)  | %     | 96           | 70-130          | 10/23/10 09:25 |            |
| Dibromofluoromethane (S)  | %     | 97           | 70-130          | 10/23/10 09:25 |            |
| Toluene-d8 (S)            | %     | 102          | 70-130          | 10/23/10 09:25 |            |

LABORATORY CONTROL SAMPLE: 515299

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 50.3       | 101       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 50.2       | 100       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 51.9       | 104       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 104        | 104       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 48.6       | 97        | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 48.1       | 96        | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 55.2       | 110       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 51.5       | 103       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 96        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 104       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 99        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 102       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515300 515301

| Parameter               | Units | 9280235050 Result | MS          |           | MSD        |            | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|-------------------------|-------|-------------------|-------------|-----------|------------|------------|----------|-----------|--------------|---------|------|
|                         |       |                   | Spike Conc. | MS Result | MSD Result | MSD Result |          |           |              |         |      |
| 1,2-Dichloroethane      | ug/L  | ND                | 50          | 50        | 61.5       | 60.6       | 123      | 121       | 70-130       | 1       | 30   |
| Benzene                 | ug/L  | ND                | 50          | 50        | 58.2       | 56.0       | 116      | 112       | 70-130       | 4       | 30   |
| Ethylbenzene            | ug/L  | ND                | 50          | 50        | 57.3       | 56.7       | 114      | 113       | 70-130       | 1       | 30   |
| m&p-Xylene              | ug/L  | ND                | 100         | 100       | 118        | 115        | 118      | 114       | 70-130       | 3       | 30   |
| Methyl-tert-butyl ether | ug/L  | ND                | 50          | 50        | 54.2       | 53.7       | 108      | 107       | 70-130       | 1       | 30   |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Parameter                 | Units | 515300               |                      | 515301                |      | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | Qual |
|---------------------------|-------|----------------------|----------------------|-----------------------|------|--------------|---------------|-------------|--------------|-----------------|------------|------|
|                           |       | 9280235050<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |      |              |               |             |              |                 |            |      |
| Naphthalene               | ug/L  | ND                   | 50                   | 50                    | 50.3 | 51.5         | 101           | 103         | 70-130       | 2               | 30         |      |
| o-Xylene                  | ug/L  | ND                   | 50                   | 50                    | 57.1 | 55.8         | 114           | 111         | 70-130       | 2               | 30         |      |
| Toluene                   | ug/L  | ND                   | 50                   | 50                    | 55.6 | 55.7         | 111           | 111         | 70-130       | 0               | 30         |      |
| 1,2-Dichloroethane-d4 (S) | %     |                      |                      |                       |      |              | 103           | 106         | 70-130       |                 |            |      |
| 4-Bromofluorobenzene (S)  | %     |                      |                      |                       |      |              | 102           | 99          | 70-130       |                 |            |      |
| Dibromofluoromethane (S)  | %     |                      |                      |                       |      |              | 102           | 104         | 70-130       |                 |            |      |
| Toluene-d8 (S)            | %     |                      |                      |                       |      |              | 100           | 100         | 70-130       |                 |            |      |

### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MSV12744 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC  
Associated Lab Samples: 9280235002, 9280235003, 9280235004, 9280235005, 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014

METHOD BLANK: 515303 Matrix: Water  
Associated Lab Samples: 9280235002, 9280235003, 9280235004, 9280235005, 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 10/23/10 19:11 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| Ethanol                   | ug/L  | ND           | 200             | 10/23/10 19:11 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 10/23/10 19:11 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 10/23/10 19:11 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 10/23/10 19:11 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 10/23/10 19:11 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 10/23/10 19:11 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 10/23/10 19:11 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 10/23/10 19:11 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 103          | 70-130          | 10/23/10 19:11 |            |
| 4-Bromofluorobenzene (S)  | %     | 98           | 70-130          | 10/23/10 19:11 |            |
| Dibromofluoromethane (S)  | %     | 104          | 70-130          | 10/23/10 19:11 |            |
| Toluene-d8 (S)            | %     | 103          | 70-130          | 10/23/10 19:11 |            |

LABORATORY CONTROL SAMPLE: 515304

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50          | 54.7       | 109       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000        | 869        | 87        | 70-130       |            |
| Benzene                 | ug/L  | 50          | 51.4       | 103       | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| Ethanol                 | ug/L  | 2000        | 1990       | 100       | 70-130       |            |
| Ethyl-tert-butyl ether  | ug/L  | 100         | 103        | 103       | 70-130       |            |
| Ethylbenzene            | ug/L  | 50          | 52.1       | 104       | 70-130       |            |
| m&p-Xylene              | ug/L  | 100         | 102        | 102       | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50          | 52.5       | 105       | 70-130       |            |
| Naphthalene             | ug/L  | 50          | 49.6       | 99        | 70-130       |            |
| o-Xylene                | ug/L  | 50          | 50.8       | 102       | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000        | 948        | 95        | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100         | 104        | 104       | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500         | 514        | 103       | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400         | 352        | 88        | 70-130       |            |
| Toluene                 | ug/L  | 50          | 50.6       | 101       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 515304

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 104       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 100       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 102       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515305 515308

| Parameter                 | 9280235004 |        | MS          | MSD         | 515305    |            | 515308   |           | % Rec Limits | Max RPD | Qual     |
|---------------------------|------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|---------|----------|
|                           | Units      | Result | Spike Conc. | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |              |         |          |
| 1,2-Dichloroethane        | ug/L       | 6.8    | 50          | 50          | 85.4      | 58.5       | 158      | 104       | 70-130       | 37      | 30 M0,R1 |
| 3,3-Dimethyl-1-Butanol    | ug/L       | ND     | 1000        | 1000        | 1040      | 1020       | 104      | 102       | 70-130       | 2       | 30       |
| Benzene                   | ug/L       | 102    | 50          | 50          | 152       | 141        | 99       | 78        | 70-130       | 7       | 30       |
| Diisopropyl ether         | ug/L       | ND     | 50          | 50          | 80.7      | 55.1       | 161      | 109       | 70-130       | 38      | 30 M0,R1 |
| Ethanol                   | ug/L       | ND     | 2000        | 2000        | 1950      | 2810       | 98       | 141       | 70-130       | 36      | 30 M0,R1 |
| Ethyl-tert-butyl ether    | ug/L       | ND     | 100         | 100         | 148       | 108        | 148      | 108       | 70-130       | 32      | 30 M0,R1 |
| Ethylbenzene              | ug/L       | 4.1J   | 50          | 50          | 62.8      | 58.1       | 117      | 108       | 70-130       | 8       | 30       |
| m&p-Xylene                | ug/L       | 115    | 100         | 100         | 232       | 210        | 117      | 95        | 70-130       | 10      | 30       |
| Methyl-tert-butyl ether   | ug/L       | 3.2J   | 50          | 50          | 75.3      | 52.9       | 144      | 99        | 70-130       | 35      | 30 M0,R1 |
| Naphthalene               | ug/L       | 43.5   | 50          | 50          | 108       | 99.5       | 129      | 112       | 70-130       | 8       | 30       |
| o-Xylene                  | ug/L       | 20.9   | 50          | 50          | 77.9      | 72.1       | 114      | 102       | 70-130       | 8       | 30       |
| tert-Amyl Alcohol         | ug/L       | 168    | 1000        | 1000        | 1650      | 1180       | 149      | 101       | 70-130       | 33      | 30 M0,R1 |
| tert-Amylmethyl ether     | ug/L       | ND     | 100         | 100         | 108       | 107        | 108      | 107       | 70-130       | 1       | 30       |
| tert-Butyl Alcohol        | ug/L       | ND     | 500         | 500         | 931       | 595        | 186      | 119       | 70-130       | 44      | 30 M0,R1 |
| tert-Butyl Formate        | ug/L       | ND     | 400         | 400         | ND        | ND         | 0        | 0         | 70-130       |         | 30 P5    |
| Toluene                   | ug/L       | ND     | 50          | 50          | 59.2      | 54.5       | 115      | 106       | 70-130       | 8       | 30       |
| 1,2-Dichloroethane-d4 (S) | %          |        |             |             |           |            | 132      | 96        | 70-130       |         | S0       |
| 4-Bromofluorobenzene (S)  | %          |        |             |             |           |            | 101      | 97        | 70-130       |         |          |
| Dibromofluoromethane (S)  | %          |        |             |             |           |            | 136      | 90        | 70-130       |         | S0       |
| Toluene-d8 (S)            | %          |        |             |             |           |            | 100      | 99        | 70-130       |         |          |

### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MSV/12753 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC  
Associated Lab Samples: 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021

METHOD BLANK: 515469 Matrix: Water  
Associated Lab Samples: 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 10/21/10 19:58 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| Ethanol                   | ug/L  | ND           | 200             | 10/21/10 19:58 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 10/21/10 19:58 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 10/21/10 19:58 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 10/21/10 19:58 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 10/21/10 19:58 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 10/21/10 19:58 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 10/21/10 19:58 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 10/21/10 19:58 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 120          | 70-130          | 10/21/10 19:58 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 70-130          | 10/21/10 19:58 |            |
| Dibromofluoromethane (S)  | %     | 116          | 70-130          | 10/21/10 19:58 |            |
| Toluene-d8 (S)            | %     | 106          | 70-130          | 10/21/10 19:58 |            |

LABORATORY CONTROL SAMPLE: 515470

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 56.4       | 113       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 876        | 88        | 70-130       |            |
| Benzene                   | ug/L  | 50          | 48.4       | 97        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 60.4       | 121       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2920       | 146       | 70-130 L3    |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 112        | 112       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 47.2       | 94        | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 95.0       | 95        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 53.7       | 107       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 45.2       | 90        | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 48.1       | 96        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1040       | 104       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 99.5       | 100       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 680        | 136       | 70-130 L3    |            |
| tert-Butyl Formate        | ug/L  | 400         | 421        | 105       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 49.8       | 100       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 113       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 515470

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 98        | 70-130       |            |
| Dibromofluoromethane (S) | %     |             |            | 113       | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 105       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515471 515472

| Parameter                 | 9280235021 |        | MS          | MSD         | 515471    |            | 515472   |           | % Rec Limits | Max RPD | Qual      |
|---------------------------|------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|---------|-----------|
|                           | Units      | Result | Spike Conc. | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |              |         |           |
| 1,2-Dichloroethane        | ug/L       | ND     | 50          | 50          | 68.9      | 62.1       | 138      | 124       | 70-130       | 10      | 30 M0     |
| 3,3-Dimethyl-1-Butanol    | ug/L       | ND     | 1000        | 1000        | 901       | 894        | 90       | 89        | 70-130       | 1       | 30        |
| Benzene                   | ug/L       | ND     | 50          | 50          | 58.5      | 54.5       | 117      | 109       | 70-130       | 7       | 30        |
| Diisopropyl ether         | ug/L       | ND     | 50          | 50          | 73.1      | 67.4       | 146      | 135       | 70-130       | 8       | 30 M0     |
| Ethanol                   | ug/L       | ND     | 2000        | 2000        | 1580      | 2710       | 79       | 136       | 70-130       | 53      | 30 M0, R1 |
| Ethyl-tert-butyl ether    | ug/L       | ND     | 100         | 100         | 137       | 124        | 137      | 124       | 70-130       | 10      | 30 M0     |
| Ethylbenzene              | ug/L       | ND     | 50          | 50          | 53.1      | 47.7       | 106      | 95        | 70-130       | 11      | 30        |
| m&p-Xylene                | ug/L       | ND     | 100         | 100         | 106       | 97.4       | 106      | 97        | 70-130       | 9       | 30        |
| Methyl-tert-butyl ether   | ug/L       | ND     | 50          | 50          | 63.0      | 57.9       | 126      | 116       | 70-130       | 8       | 30        |
| Naphthalene               | ug/L       | ND     | 50          | 50          | 49.6      | 47.3       | 99       | 95        | 70-130       | 5       | 30        |
| o-Xylene                  | ug/L       | ND     | 50          | 50          | 56.1      | 49.4       | 112      | 99        | 70-130       | 13      | 30        |
| tert-Amyl Alcohol         | ug/L       | ND     | 1000        | 1000        | 1160      | 1180       | 116      | 118       | 70-130       | 2       | 30        |
| tert-Amylmethyl ether     | ug/L       | ND     | 100         | 100         | 117       | 112        | 117      | 112       | 70-130       | 4       | 30        |
| tert-Butyl Alcohol        | ug/L       | ND     | 500         | 500         | 783       | 802        | 157      | 160       | 70-130       | 2       | 30 M0     |
| tert-Butyl Formate        | ug/L       | ND     | 400         | 400         | ND        | ND         | 0        | 0         | 70-130       |         | 30 P5     |
| Toluene                   | ug/L       | ND     | 50          | 50          | 57.8      | 53.6       | 115      | 107       | 70-130       | 8       | 30        |
| 1,2-Dichloroethane-d4 (S) | %          |        |             |             |           |            | 118      | 117       | 70-130       |         |           |
| 4-Bromofluorobenzene (S)  | %          |        |             |             |           |            | 99       | 97        | 70-130       |         |           |
| Dibromofluoromethane (S)  | %          |        |             |             |           |            | 115      | 112       | 70-130       |         |           |
| Toluene-d8 (S)            | %          |        |             |             |           |            | 105      | 105       | 70-130       |         |           |

### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MSV/12789      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV Oxygenates SC  
Associated Lab Samples: 9280235001

METHOD BLANK: 517218      Matrix: Water  
Associated Lab Samples: 9280235001

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 10/25/10 15:40 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| Ethanol                   | ug/L  | ND           | 200             | 10/25/10 15:40 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 10/25/10 15:40 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 10/25/10 15:40 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 10/25/10 15:40 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 10/25/10 15:40 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 10/25/10 15:40 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 10/25/10 15:40 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 10/25/10 15:40 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 100          | 70-130          | 10/25/10 15:40 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 70-130          | 10/25/10 15:40 |            |
| Dibromofluoromethane (S)  | %     | 101          | 70-130          | 10/25/10 15:40 |            |
| Toluene-d8 (S)            | %     | 95           | 70-130          | 10/25/10 15:40 |            |

LABORATORY CONTROL SAMPLE: 517219

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 44.1       | 88        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 944        | 94        | 70-130       |            |
| Benzene                   | ug/L  | 50          | 46.5       | 93        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 37.9       | 76        | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 1660       | 83        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 87.6       | 88        | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 44.6       | 89        | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 87.1       | 87        | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 36.3       | 73        | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 58.6       | 117       | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 51.2       | 102       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1030       | 103       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 104        | 104       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 424        | 85        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 384        | 96        | 70-130       |            |
| Toluene                   | ug/L  | 50          | 46.9       | 94        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 97        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP

Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 517219

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 106       | 70-130       |            |
| Dibromofluoromethane (S) | %     |             |            | 96        | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 103       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 517220 517221

| Parameter                 | Units | 9280362013 |                | 517220          |           | 517221     |          | % Rec | MSD % Rec | % Rec Limits | Max       |       |     |
|---------------------------|-------|------------|----------------|-----------------|-----------|------------|----------|-------|-----------|--------------|-----------|-------|-----|
|                           |       | Result     | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec |       |           |              | MSD % Rec | RPD   | RPD |
| 1,2-Dichloroethane        | ug/L  | ND         | 50             | 50              | 34.8      | 49.3       | 70       | 99    | 70-130    | 34           | 30        | R1    |     |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND         | 1000           | 1000            | 568       | 917        | 57       | 92    | 70-130    | 47           | 30        | M0,R1 |     |
| Benzene                   | ug/L  | ND         | 50             | 50              | 32.6      | 46.4       | 65       | 93    | 70-130    | 35           | 30        | M0,R1 |     |
| Diisopropyl ether         | ug/L  | ND         | 50             | 50              | 33.0      | 49.5       | 66       | 99    | 70-130    | 40           | 30        | M0,R1 |     |
| Ethanol                   | ug/L  | ND         | 2000           | 2000            | 1340      | 2240       | 67       | 112   | 70-130    | 50           | 30        | M0,R1 |     |
| Ethyl-tert-butyl ether    | ug/L  | ND         | 100            | 100             | 64.7      | 95.5       | 65       | 98    | 70-130    | 38           | 30        | M0,R1 |     |
| Ethylbenzene              | ug/L  | ND         | 50             | 50              | 31.3      | 45.7       | 63       | 91    | 70-130    | 37           | 30        | M0,R1 |     |
| m&p-Xylene                | ug/L  | ND         | 100            | 100             | 59.9      | 87.9       | 60       | 88    | 70-130    | 38           | 30        | M0,R1 |     |
| Methyl-tert-butyl ether   | ug/L  | ND         | 50             | 50              | 32.4      | 49.0       | 65       | 98    | 70-130    | 41           | 30        | M0,R1 |     |
| Naphthalene               | ug/L  | ND         | 50             | 50              | 28.6      | 51.5       | 57       | 103   | 70-130    | 57           | 30        | M0,R1 |     |
| o-Xylene                  | ug/L  | ND         | 50             | 50              | 35.4      | 49.8       | 71       | 100   | 70-130    | 34           | 30        | R1    |     |
| tert-Amyl Alcohol         | ug/L  | ND         | 1000           | 1000            | 611       | 986        | 61       | 99    | 70-130    | 47           | 30        | M0,R1 |     |
| tert-Amylmethyl ether     | ug/L  | ND         | 100            | 100             | 69.8      | 106        | 70       | 106   | 70-130    | 41           | 30        | R1    |     |
| tert-Butyl Alcohol        | ug/L  | ND         | 500            | 500             | 316       | 555        | 63       | 111   | 70-130    | 55           | 30        | M0,R1 |     |
| tert-Butyl Formate        | ug/L  | ND         | 400            | 400             | 93.7      | 131        | 23       | 33    | 70-130    | 33           | 30        | P5    |     |
| Toluene                   | ug/L  | ND         | 50             | 50              | 32.7      | 44.0       | 65       | 88    | 70-130    | 29           | 30        | M0    |     |
| 1,2-Dichloroethane-d4 (S) | %     |            |                |                 |           |            |          | 107   | 104       | 70-130       |           |       |     |
| 4-Bromofluorobenzene (S)  | %     |            |                |                 |           |            |          | 104   | 97        | 70-130       |           |       |     |
| Dibromofluoromethane (S)  | %     |            |                |                 |           |            |          | 99    | 105       | 70-130       |           |       |     |
| Toluene-d8 (S)            | %     |            |                |                 |           |            |          | 99    | 94        | 70-130       |           |       |     |

### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

QC Batch: MSV/12850 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC  
Associated Lab Samples: 9280235022, 9280235023, 9280235024, 9280235025, 9280235026

METHOD BLANK: 519805 Matrix: Water  
Associated Lab Samples: 9280235022, 9280235023, 9280235024, 9280235025, 9280235026

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 10/29/10 13:59 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| Ethanol                   | ug/L  | ND           | 200             | 10/29/10 13:59 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 10/29/10 13:59 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 10/29/10 13:59 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 10/29/10 13:59 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 10/29/10 13:59 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 10/29/10 13:59 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 10/29/10 13:59 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 10/29/10 13:59 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 92           | 70-130          | 10/29/10 13:59 |            |
| 4-Bromofluorobenzene (S)  | %     | 105          | 70-130          | 10/29/10 13:59 |            |
| Dibromofluoromethane (S)  | %     | 95           | 70-130          | 10/29/10 13:59 |            |
| Toluene-d8 (S)            | %     | 100          | 70-130          | 10/29/10 13:59 |            |

LABORATORY CONTROL SAMPLE: 519806

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 53.6       | 107       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 987        | 99        | 70-130       |            |
| Benzene                   | ug/L  | 50          | 54.2       | 108       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 53.1       | 106       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2060       | 103       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 108        | 108       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 50.9       | 102       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 101        | 101       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 50.9       | 102       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 46.2       | 92        | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 49.2       | 98        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 949        | 95        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 106        | 106       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 555        | 111       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 370        | 93        | 70-130       |            |
| Toluene                   | ug/L  | 50          | 52.6       | 105       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 93        | 70-130       |            |

Date: 11/02/2010 07:59 AM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 519806

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 101       | 70-130       |            |
| Dibromofluoromethane (S) | %     |             |            | 98        | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 105       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 519807 519808

| Parameter                 | 9280785002 |        | MS          | MSD         | MS     | MSD    | MS    | MSD   | % Rec  | Max | Qual        |
|---------------------------|------------|--------|-------------|-------------|--------|--------|-------|-------|--------|-----|-------------|
|                           | Units      | Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | RPD |             |
| 1,2-Dichloroethane        | ug/L       | ND     | 50          | 50          | 56.4   | 54.8   | 113   | 110   | 70-130 | 3   | 30          |
| 3,3-Dimethyl-1-Butanol    | ug/L       | ND     | 1000        | 1000        | 886    | 830    | 89    | 83    | 70-130 | 7   | 30          |
| Benzene                   | ug/L       | ND     | 50          | 50          | 54.5   | 54.8   | 108   | 108   | 70-130 | 1   | 30          |
| Diisopropyl ether         | ug/L       | ND     | 50          | 50          | 56.5   | 56.9   | 113   | 114   | 70-130 | 1   | 30          |
| Ethanol                   | ug/L       | ND     | 2000        | 2000        | 9040   | 1980   | 452   | 99    | 70-130 | 128 | 30 E,M0, R1 |
| Ethyl-tert-butyl ether    | ug/L       | ND     | 100         | 100         | 112    | 113    | 112   | 113   | 70-130 | 1   | 30          |
| Ethylbenzene              | ug/L       | ND     | 50          | 50          | 52.0   | 55.4   | 103   | 110   | 70-130 | 6   | 30          |
| m&p-Xylene                | ug/L       | ND     | 100         | 100         | 106    | 102    | 105   | 101   | 70-130 | 4   | 30          |
| Methyl-tert-butyl ether   | ug/L       | ND     | 50          | 50          | 54.3   | 55.4   | 109   | 111   | 70-130 | 2   | 30          |
| Naphthalene               | ug/L       | ND     | 50          | 50          | 48.9   | 53.4   | 94    | 103   | 70-130 | 9   | 30          |
| o-Xylene                  | ug/L       | ND     | 50          | 50          | 50.8   | 51.9   | 101   | 103   | 70-130 | 2   | 30          |
| tert-Amyl Alcohol         | ug/L       | ND     | 1000        | 1000        | 886    | 845    | 89    | 84    | 70-130 | 5   | 30          |
| tert-Amylmethyl ether     | ug/L       | ND     | 100         | 100         | 113    | 112    | 113   | 112   | 70-130 | 1   | 30          |
| tert-Butyl Alcohol        | ug/L       | ND     | 500         | 500         | 471    | 441    | 94    | 88    | 70-130 | 7   | 30          |
| tert-Butyl Formate        | ug/L       | ND     | 400         | 400         | 38.1J  | 38.2J  | 10    | 10    | 70-130 |     | 30 P5       |
| Toluene                   | ug/L       | ND     | 50          | 50          | 53.7   | 54.5   | 106   | 107   | 70-130 | 1   | 30          |
| 1,2-Dichloroethane-d4 (S) | %          |        |             |             |        |        | 97    | 93    | 70-130 |     |             |
| 4-Bromofluorobenzene (S)  | %          |        |             |             |        |        | 102   | 102   | 70-130 |     |             |
| Dibromofluoromethane (S)  | %          |        |             |             |        |        | 95    | 93    | 70-130 |     |             |
| Toluene-d8 (S)            | %          |        |             |             |        |        | 102   | 102   | 70-130 |     |             |

## QUALIFIERS

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville  
PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.  
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.  
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
R1 RPD value was outside control limits.  
S0 Surrogate recovery outside laboratory control limits.  
S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.  
S4 Surrogate recovery not evaluated against control limits due to sample dilution.



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID  | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|------------|-----------------|------------|-------------------|------------------|
| 9280235001 | MW-2       | EPA 8011        | OEXT/11563 | EPA 8011          | GCSV/8588        |
| 9280235002 | MW-3       | EPA 8011        | OEXT/11563 | EPA 8011          | GCSV/8588        |
| 9280235003 | MW-4       | EPA 8011        | OEXT/11563 | EPA 8011          | GCSV/8588        |
| 9280235004 | MW-5       | EPA 8011        | OEXT/11563 | EPA 8011          | GCSV/8588        |
| 9280235005 | MW-6       | EPA 8011        | OEXT/11563 | EPA 8011          | GCSV/8588        |
| 9280235006 | MW-7       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235007 | MW-8       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235008 | MW-9       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235009 | MW-10      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235010 | MW-11      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235011 | MW-12      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235012 | MW-13      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235013 | MW-14      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235014 | MW-15      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235015 | MW-16      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235016 | MW-17      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235017 | MW-18      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235018 | MW-19      | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235019 | TW-1       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235020 | TW-2       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235021 | TW-3       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235022 | TW-4       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235023 | TW-5       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235024 | TW-6       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235025 | TW-7       | EPA 8011        | OEXT/11564 | EPA 8011          | GCSV/8589        |
| 9280235026 | TW-8       | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235049 | WSW-1      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235050 | WSW-2      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235051 | WSW-3      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235052 | WSW-4      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235053 | WSW-5      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235054 | WSW-6      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235055 | WSW-7      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235056 | WSW-8      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235057 | WSW-9      | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235058 | WSW-10     | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235059 | WSW-11     | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235060 | WSW-12     | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235061 | WSW-13     | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235062 | WSW-14     | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235063 | WSW-15     | EPA 8011        | OEXT/11570 | EPA 8011          | GCSV/8587        |
| 9280235027 | MW-6 LEAD  | EPA 3010        | MPRP/7274  | EPA 6010          | ICP/6710         |
| 9280235028 | MW-7 LEAD  | EPA 3010        | MPRP/7274  | EPA 6010          | ICP/6710         |
| 9280235029 | MW-8 LEAD  | EPA 3010        | MPRP/7274  | EPA 6010          | ICP/6710         |
| 9280235030 | MW-9 LEAD  | EPA 3010        | MPRP/7274  | EPA 6010          | ICP/6710         |
| 9280235031 | MW-10 LEAD | EPA 3010        | MPRP/7274  | EPA 6010          | ICP/6710         |
| 9280235032 | MW-11 LEAD | EPA 3010        | MPRP/7274  | EPA 6010          | ICP/6710         |

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID  | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|------------|-----------------|-----------|-------------------|------------------|
| 9280235033 | MW-12 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235034 | MW-13 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235035 | MW-14 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235036 | MW-15 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235037 | MW-16 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235038 | MW-17 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235039 | MW-18 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235040 | MW-19 LEAD | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235041 | TW-1 LEAD  | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235042 | TW-2 LEAD  | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235043 | TW-3 LEAD  | EPA 3010        | MPRP/7274 | EPA 6010          | ICP/6710         |
| 9280235044 | TW-4 LEAD  | EPA 3010        | MPRP/7281 | EPA 6010          | ICP/6718         |
| 9280235045 | TW-5 LEAD  | EPA 3010        | MPRP/7281 | EPA 6010          | ICP/6718         |
| 9280235046 | TW-6 LEAD  | EPA 3010        | MPRP/7281 | EPA 6010          | ICP/6718         |
| 9280235047 | TW-7 LEAD  | EPA 3010        | MPRP/7281 | EPA 6010          | ICP/6718         |
| 9280235048 | TW-8 LEAD  | EPA 3010        | MPRP/7281 | EPA 6010          | ICP/6718         |
| 9280235049 | WSW-1      | EPA 8260        | MSV/12742 |                   |                  |
| 9280235050 | WSW-2      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235051 | WSW-3      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235052 | WSW-4      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235053 | WSW-5      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235054 | WSW-6      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235055 | WSW-7      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235056 | WSW-8      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235057 | WSW-9      | EPA 8260        | MSV/12743 |                   |                  |
| 9280235058 | WSW-10     | EPA 8260        | MSV/12743 |                   |                  |
| 9280235059 | WSW-11     | EPA 8260        | MSV/12743 |                   |                  |
| 9280235060 | WSW-12     | EPA 8260        | MSV/12743 |                   |                  |
| 9280235061 | WSW-13     | EPA 8260        | MSV/12743 |                   |                  |
| 9280235062 | WSW-14     | EPA 8260        | MSV/12743 |                   |                  |
| 9280235063 | WSW-15     | EPA 8260        | MSV/12743 |                   |                  |
| 9280235001 | MW-2       | EPA 8260        | MSV/12789 |                   |                  |
| 9280235002 | MW-3       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235003 | MW-4       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235004 | MW-5       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235005 | MW-6       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235006 | MW-7       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235007 | MW-8       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235008 | MW-9       | EPA 8260        | MSV/12744 |                   |                  |
| 9280235009 | MW-10      | EPA 8260        | MSV/12744 |                   |                  |
| 9280235010 | MW-11      | EPA 8260        | MSV/12744 |                   |                  |
| 9280235011 | MW-12      | EPA 8260        | MSV/12744 |                   |                  |
| 9280235012 | MW-13      | EPA 8260        | MSV/12744 |                   |                  |
| 9280235013 | MW-14      | EPA 8260        | MSV/12744 |                   |                  |
| 9280235014 | MW-15      | EPA 8260        | MSV/12744 |                   |                  |
| 9280235015 | MW-16      | EPA 8260        | MSV/12753 |                   |                  |

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 378 TRUCK STOP  
Pace Project No.: 9280235

| Lab ID     | Sample ID | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|-----------|-------------------|------------------|
| 9280235016 | MW-17     | EPA 8260        | MSV/12753 |                   |                  |
| 9280235017 | MW-18     | EPA 8260        | MSV/12753 |                   |                  |
| 9280235018 | MW-19     | EPA 8260        | MSV/12753 |                   |                  |
| 9280235019 | TW-1      | EPA 8260        | MSV/12753 |                   |                  |
| 9280235020 | TW-2      | EPA 8260        | MSV/12753 |                   |                  |
| 9280235021 | TW-3      | EPA 8260        | MSV/12753 |                   |                  |
| 9280235022 | TW-4      | EPA 8260        | MSV/12850 |                   |                  |
| 9280235023 | TW-5      | EPA 8260        | MSV/12850 |                   |                  |
| 9280235024 | TW-6      | EPA 8260        | MSV/12850 |                   |                  |
| 9280235025 | TW-7      | EPA 8260        | MSV/12850 |                   |                  |
| 9280235026 | TW-8      | EPA 8260        | MSV/12850 |                   |                  |





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**HITS ONLY**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

| Lab Sample ID<br>Method | Client Sample ID<br>Parameters | Result | Units | Report Limit | Analyzed       | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| <b>9281530001</b>       | <b>07960 WSW 13</b>            |        |       |              |                |            |
| EPA 8260                | Methyl-tert-butyl ether        | 0.32J  | ug/L  | 1.0          | 11/07/10 23:33 |            |
| <b>9281530002</b>       | <b>07960 WSW 14</b>            |        |       |              |                |            |
| EPA 8260                | Methyl-tert-butyl ether        | 1.3    | ug/L  | 1.0          | 11/07/10 23:58 |            |
| <b>9281530003</b>       | <b>07960 WSW 8</b>             |        |       |              |                |            |
| EPA 8260                | tert-Amyl Alcohol              | 130    | ug/L  | 100          | 11/08/10 00:24 |            |
| EPA 8260                | 1,2-Dichloroethane             | 8.7    | ug/L  | 1.0          | 11/08/10 00:24 |            |
| EPA 8260                | Diisopropyl ether              | 0.23J  | ug/L  | 1.0          | 11/08/10 00:24 |            |
| EPA 8260                | Methyl-tert-butyl ether        | 0.83J  | ug/L  | 1.0          | 11/08/10 00:24 |            |
| <b>9281530004</b>       | <b>07960 WSW 1</b>             |        |       |              |                |            |
| EPA 8260                | tert-Butyl Alcohol             | 7.5J   | ug/L  | 50.0         | 11/08/10 00:49 |            |
| EPA 8260                | 1,2-Dichloroethane             | 2.6    | ug/L  | 1.0          | 11/08/10 00:49 |            |

**REPORT OF LABORATORY ANALYSIS**

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**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|---------|-------------------|----------------|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|
| WSW-1   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     |
| WSW-2   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-3   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-4   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-5   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-6   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-7   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-8   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 3.6 J       | <5.0               | 9.2            | <0.020     |
| WSW-9   | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-10  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-11  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-12  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-13  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     |
| WSW-14  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     |
| WSW-15  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
|         | RBSL <sup>6</sup> | 5              | 1,000          | 700                  | 10,000               | 40          | 25                 | 5              | 0.05       |

- Antiknock agents
  - Tetra-ethyl lead
  - Methylcyclopentadienyl manganese tricarbonyl (MMT)
  - Ferrocene
  - Iron pentacarbonyl
  - Toluene
  - Isooctane
  - Triptane
- Lead scavengers (for leaded gasoline)
  - Tricresyl phosphate (TCP) (also an AW additive and EP additive)
  - 1,2-Dibromoethane
  - 1,2-Dichloroethane
- Fuel dyes, most common:
  - Solvent Red 24
  - Solvent Red 26
  - Solvent Yellow 124
  - Solvent Blue 35
- Fuel additives in general
  - Ether and other flammable hydrocarbons have been used extensively as starting fluid for many difficult-to-start engines, especially diesel engines
  - Nitrous oxide, or simply *nitrous*, is an oxidizer used in auto racing
  - Nitromethane, or "nitro," is a high-performance racing fuel
  - Acetone is a vaporization additive, mainly used with methanol racing fuel to improve vaporisation at start up
  - Butyl rubber (as polyisobutylene succinimide, detergent to prevent fouling of diesel fuel injectors)
  - Picrate improves combustion, increases fuel mileage
  - Silicone is an anti-foaming agent for diesel fuel, but may damage oxygen sensors in gasoline engines
  - Tetranitromethane can increase the cetane number of diesel fuel, improving its combustion properties

## See also

- For additive metering see metering pumps
- Biobor (microbicide)
- Oil additive, which describes some similar additives
- Top Tier Detergent Gasoline

## References

- ARRC Auto Repair Reference Center. Point 5 Technologies. Accessed via EbscoHost on November 27, 2009

Retrieved from "[http://en.wikipedia.org/wiki/Gasoline\\_additive](http://en.wikipedia.org/wiki/Gasoline_additive)"

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## How Gasoline Works

by Marshall Brain

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| 1. Introduction to How Gasoline Works | 4. What is octane?        |
| 2. What is gasoline?                  | 5. Gasoline Additives     |
| 3. Where does gasoline come from?     | 6. Problems With Gasoline |
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### Gasoline Additives

During WWI, it was discovered that you can add a chemical called tetraethyl lead to gasoline and significantly improve its octane rating. Cheaper grades of gasoline could be made usable by adding this chemical. This led to the widespread use of "ethyl" or "leaded" gasoline. Unfortunately, the side effects of adding lead to gasoline are:

- Lead clogs a catalytic converter and renders it inoperable within minutes.
- The Earth became covered in a thin layer of lead, and lead is toxic to many living things (including humans).

When lead was banned, gasoline got more expensive because refineries could not boost the octane ratings of cheaper grades any more. Airplanes are still allowed to use leaded gasoline, and octane ratings of 115 are commonly used in super-high-performance piston airplane engines (jet engines burn kerosene, by the way).

Another common additive is MTBE. MTBE is the acronym for methyl tertiary butyl ether, a fairly simple molecule that is created from methanol.

MTBE gets added to gasoline for two reasons:

1. It boosts octane.
2. It is an oxygenate, meaning that it adds oxygen to the reaction when it burns. Ideally, an oxygenate reduces the amount of unburned hydrocarbons and carbon monoxide in the exhaust.

MTBE started getting added to gasoline in a big way after the Clean Air Act of 1990 went into effect. Gasoline can contain as much as 10 percent to 15 percent MTBE. The main problem with MTBE is that it is thought to be carcinogenic and it mixes easily with water. If gasoline containing MTBE leaks from an underground tank at a gas station, it can get into groundwater and contaminate wells. Of course, MTBE isn't the only thing getting into the groundwater when a tank leaks – so is gasoline and a host of other gasoline additives.

According to this page at the EPA:

Although there is no established drinking-water regulation, USEPA has issued a drinking-water advisory of 20 to 40 micrograms per liter (µg/L) on the basis of taste and odor thresholds. This advisory concentration is intended to provide a large margin of safety for noncancer effects and is in the range of margins typically provided for potential carcinogenic effects.

The most likely thing to replace MTBE in gasoline is ethanol – normal alcohol. It is somewhat more expensive than MTBE, but it is not a cancer threat.

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# Consumer Factsheet on: ETHYLENE DIBROMIDE

## List of Contaminants

As part of the Drinking Water and Health pages, this fact sheet is part of a larger publication:  
**National Primary Drinking Water Regulations**

This is a factsheet about a chemical that may be found in some public or private drinking water supplies. It may cause health problems if found in amounts greater than the health standard set by the United States Environmental Protection Agency (EPA).

## **What is EDB and how is it used?**

Ethylene dibromide (EDB) is a colorless, heavy organic liquid with a mildly sweet chloroform-like odor. Ethylene dibromide is mainly used in anti-knock gasoline mixtures, particularly in aviation fuel. Other uses include: as a solvent for resins, gums, and waxes; in waterproofing preparations; in making dyes and drugs; and as a pesticide for grains and fruit.

The list of trade names given below may help you find out whether you are using this chemical at home or work.

## **Trade Names and Synonyms:**

EDB  
Glycol dibromide  
Bromofume  
Dowfume W 85  
Aadibroom  
Iscobrome-D  
Nefis  
Pestmaster  
EDB-85  
Soilbrom  
Soilfume  
Kopfume

## **Why is EDB being Regulated?**

In 1974, Congress passed the Safe Drinking Water Act. This law requires EPA to determine safe levels of chemicals in drinking water which do or may cause health problems. These non-enforceable levels, based solely on possible health risks and exposure, are called Maximum Contaminant Level Goals.

The MCLG for EDB has been set at zero because EPA believes this level of protection would not cause any of the potential health problems described below.

Based on this MCLG, EPA has set an enforceable standard called a Maximum Contaminant Level (MCL). MCLs are set as close to the MCLGs as possible, considering the ability of public water systems to detect and remove contaminants using suitable treatment technologies.

The MCL has been set at 0.05 parts per billion (ppb) because EPA believes, given present technology and resources, this is the lowest level to which water systems can reasonably be required to remove this contaminant should it occur in drinking water.

These drinking water standards and the regulations for ensuring these standards are met, are called National Primary Drinking Water Regulations. All public water supplies must abide by these regulations.

## **What are the Health Effects?**

Short-term: EPA has found EDB to potentially cause the following health effects when people are exposed to it at levels above the MCL for relatively short periods of time: damage to the liver, stomach, and adrenal glands, along with significant reproductive system toxicity, particularly the testes.

Long-term: EDB has the potential to cause the following effects from a lifetime exposure at levels above the MCL: damage to the respiratory system, nervous system, liver, heart, and kidneys; cancer.

## **How much EDB is produced and released to the environment?**

EDB is released during the use, storage, and transport of leaded gasoline, as well as during any spills; from its former use as a pesticide; wastewater and emissions from processes and waste waters of the chemical industries that use it.

From 1987 to 1993, according to the Toxics Release Inventory EDB releases to land and water totalled over 3,000 lbs. These releases were primarily from petroleum refineries. The largest of these releases occurred in California and Missouri.

## **What happens to EDB when it is released to the environment?**

When spilled on land or applied to land during soil fumigation, ethylene dibromide may leach to groundwater. Its persistence can vary greatly from soil to soil, from a few weeks to as much as 19 years.

EDB released to water will mainly evaporate. It can be degraded by microbes and chemical reaction in some types of groundwater. It does not tend to accumulate in aquatic life.

## **How will EDB be Detected in and Removed from My Drinking Water?**

The regulation for EDB became effective in 1992. Between 1993 and 1995, EPA required your water supplier to collect water samples every 3 months for one year and analyze them to find out if EDB is present above 0.01 ppb. If it is present above this level, the system must continue to monitor this contaminant.

If contaminant levels are found to be consistently above the MCL, your water supplier must take steps to reduce the amount of EDB so that it is consistently below that level. The following treatment methods have been approved by EPA for removing EDB: Granular activated charcoal.

## **How will I know if EDB is in my drinking water?**

If the levels of EDB exceed the MCL, 0.05 ppb, the system must notify the public via newspapers, radio, TV and other means. Additional actions, such as providing alternative drinking water supplies, may be required to prevent serious risks to public health.

## Drinking Water Standards:

Mclg: zero

Mcl: 0.05 ppb

## EDB Releases to Water and Land, 1987 to 1993 (in pounds):

|  | Water        | Land         |
|--|--------------|--------------|
| <b>TOTALS (In pounds)</b>                    | <b>2,654</b> | <b>2,670</b> |
| <b>Top Six States</b>                        |              |              |
| CA   | 500          |              |
| MS   | 500          |              |
| HI   | 750          |              |
| NJ   | 700          |              |
| TX   | 466          |              |
| PR   | 500          |              |
| <b>Top Industrial Sources</b>                |              |              |
| Petroleum refining                           |              | 1,716        |
| Industrial organic<br>chemicals, fertilizers |              | 700          |

## Learn more about your drinking water!

EPA strongly encourages people to learn more about their drinking water, and to support local efforts to protect and upgrade the supply of safe drinking water. Your water bill or telephone book's government listings are a good starting point.

Your local water supplier can give you a list of the chemicals they test for in your water, as well as how your water is treated.

Your state Department of Health/Environment is also a valuable source of information.

For help in locating these agencies or for information on drinking water in general, call: EPA's Safe Drinking Water Hotline: (800) 426-4791.

For additional information on the uses and releases of chemicals in your state, contact the: Community Right-to-Know Hotline: (800) 424-9346



## Technology Transfer Network

~~Air Toxics Web site~~ ~~Atmospheric Radiation~~ ~~TTN Web - Technology Transfer Network~~ ~~Air Toxics Web site~~ Ethylene Dichloride (1,2-Dichloroethane)

# Ethylene Dichloride (1,2-Dichloroethane)

107-06-2

## **Hazard Summary-Created in April 1992; Revised in January 2000**

Exposure to low levels of ethylene dichloride can occur from breathing ambient or workplace air. Inhalation of concentrated ethylene dichloride vapor can induce effects on the human nervous system, liver, and kidneys, as well as respiratory distress, cardiac arrhythmia, nausea, and vomiting. Chronic (long-term) inhalation exposure to ethylene dichloride produced effects on the liver and kidneys in animals. No information is available on the reproductive or developmental effects of ethylene dichloride in humans. Decreased fertility and increased embryo mortality have been observed in inhalation studies of rats. Epidemiological studies are not conclusive regarding the carcinogenic effects of ethylene dichloride, due to concomitant exposure to other chemicals. Following treatment by gavage (experimentally placing the chemical in the stomach), several tumor types were induced in rats and mice. EPA has classified ethylene dichloride as a Group B2, probable human carcinogen.

Please Note: Ethylene dichloride is also known as 1,2-dichloroethane. The main sources of information for this fact sheet are EPA's Integrated Risk Information System (IRIS), which contains information on the carcinogenic effects of ethylene dichloride including the unit cancer risk for inhalation exposure, and the Agency for Toxic Substances and Disease Registry's (ATSDR's) Toxicological Profile for 1,2-Dichloroethane.

## **Uses**

Ethylene dichloride is primarily used in the production of vinyl chloride as well as other chemicals. It is used in solvents in closed systems for various extraction and cleaning purposes in organic synthesis. It is also added to leaded gasoline as a lead scavenger. (1)

It is also used as a dispersant in rubber and plastics, as a wetting and penetrating agent. (1)

It was formerly used in ore flotation, as a grain fumigant, as a metal degreaser, and in textile and PVC cleaning. (1)

## **Sources and Potential Exposure**

Inhalation of ethylene dichloride in the ambient or workplace air is generally the main route of human exposure. The compound may be released during its production, storage, use, transport, and disposal. (1)

Exposure may also occur through the consumption of contaminated water. But usually ethylene dichloride will evaporate quickly into the air from the water or soil. (1)

The average levels of ethylene dichloride in the air of seven urban locations in 1980-1981 ranged from 0.1 to 1.5 parts per billion (ppb). (1)

## Assessing Personal Exposure

Breath samples may be used to determine whether or not someone has been recently exposed to ethylene dichloride. (1)

## Health Hazard Information

### Acute Effects:

Acute inhalation exposure of humans to ethylene dichloride can affect the nervous system, with effects including narcosis, nausea, and vomiting. (1)

An occupationally exposed man died from cardiac arrhythmia after acute (short-term) inhalation exposure to very high levels of ethylene dichloride. (1)

Cardiac arrhythmia, pulmonary edema, bronchitis, hemorrhagic gastritis and colitis, depression, and changes in the brain tissue have been reported in humans that ingested large amounts of ethylene dichloride. (1)

Effects reported in animals exposed by inhalation are similar to those for humans. (1)

Clouding of the cornea and eye irritation have been observed in animals and are thought to be the result of vapor contact with the eyes. (1)

Acute animal tests in rats, mice, and rabbits have demonstrated ethylene dichloride to have moderate acute toxicity from inhalation or dermal exposure and moderate to high acute toxicity from oral exposure. (2)

### Chronic Effects (Noncancer):

No information is available on the chronic effects of ethylene dichloride.

Chronic inhalation exposure to ethylene dichloride produced effects on the liver and kidneys in animals. (1)

Some studies have reported changes in the liver and kidneys and effects on the immune system and central nervous system in animals chronically exposed by ingestion. (1)

EPA has not established a Reference Dose (RfD) or a Reference Concentration (RfC) for ethylene dichloride. (3)

ATSDR has established an intermediate oral minimal risk level (MRL) of 0.2 milligram per kilogram body weight per day (mg/kg/d) based on kidney effects in animals. The MRL is an estimate of the daily human exposure to a hazardous substance that is likely to be without appreciable risk of adverse noncancer health effects over a specified duration of exposure. Exposure to a level above the MRL does not mean that adverse health effects will occur. The MRL is intended to serve as a screening tool. (1)

ATSDR has established a chronic inhalation MRL of 0.8 milligrams per cubic meter (mg/m<sup>3</sup>) (0.2 parts per million [ppm]) based on liver effects in animals and an acute inhalation MRL of 0.8 mg/m<sup>3</sup> (0.2 ppm) based on immunological effects in animals. (1)

The California Environmental Protection Agency (CalEPA) has established a chronic reference exposure level of 0.4 mg/m<sup>3</sup> for ethylene dichloride based on liver effects in rats. The CalEPA reference exposure level is a concentration at or below which adverse health effects are not likely to occur. (5)

### Reproductive/Developmental Effects:

No information is available on the reproductive or developmental effects of ethylene dichloride in humans.

Decreased fertility and increased embryo mortality have been observed in inhalation studies of rats. (1)

### Cancer Risk:

Epidemiological occupational studies could not link exposure to ethylene dichloride specifically with excess cancer incidence. (1)

An increased incidence of colon and rectal cancer in men over 55 years of age exposed to ethylene dichloride in the drinking water has been reported. However, the study population was concomitantly exposed to other chemicals. (1)

Following treatment by gavage (experimentally placing the chemical in the stomach), several tumor types (including increased incidences of forestomach squamous-cell

carcinomas, circulatory system hemangiosarcomas, mammary adenocarcinoma, alveolar/bronchiolar adenomas, endometrial stromal polyps and sarcomas, and hepatocellular carcinomas) were induced in rats and mice. (1,3,4)

An increased incidence of lung papillomas has been reported in mice after topical application. (1,3)

EPA has classified ethylene dichloride as a Group B2, probable human carcinogen. (3) EPA uses mathematical models, based on human and animal studies, to estimate the probability of a person developing cancer from breathing air containing a specified concentration of a chemical. EPA calculated an inhalation unit cancer risk estimate of  $2.6 \times 10^{-5} (\mu\text{g}/\text{m}^3)^{-1}$ . EPA estimates that, if an individual were to continuously breathe air containing ethylene dichloride at an average of  $0.04 \mu\text{g}/\text{m}^3$  ( $4 \times 10^{-5} \text{mg}/\text{m}^3$ ) over his or her entire lifetime, that person would theoretically have no more than a one-in-a-million increased chance of developing cancer as a direct result of breathing air containing this chemical. Similarly, EPA estimates that breathing air containing  $0.4 \mu\text{g}/\text{m}^3$  ( $4 \times 10^{-4} \text{mg}/\text{m}^3$ ) would result in not greater than a one-in-a-hundred thousand increased chance of developing cancer, and air containing  $4.0 \mu\text{g}/\text{m}^3$  ( $4 \times 10^{-3} \text{mg}/\text{m}^3$ ) would result in not greater than a one-in-ten thousand increased chance of developing cancer. For a detailed discussion of confidence in the potency estimates, please see IRIS. (3)

## Physical Properties

1,2-Dichloroethane is a common synonym for ethylene dichloride.

The chemical formula for ethylene dichloride is  $\text{C}_2\text{H}_4\text{Cl}_2$ , and its molecular weight is 98.96 g/mol. (1)

Ethylene dichloride occurs as a colorless, oily, heavy liquid that is slightly soluble in water. (1)

Ethylene dichloride has a pleasant chloroform-like odor, with an odor threshold of 6-10 ppm. (1)

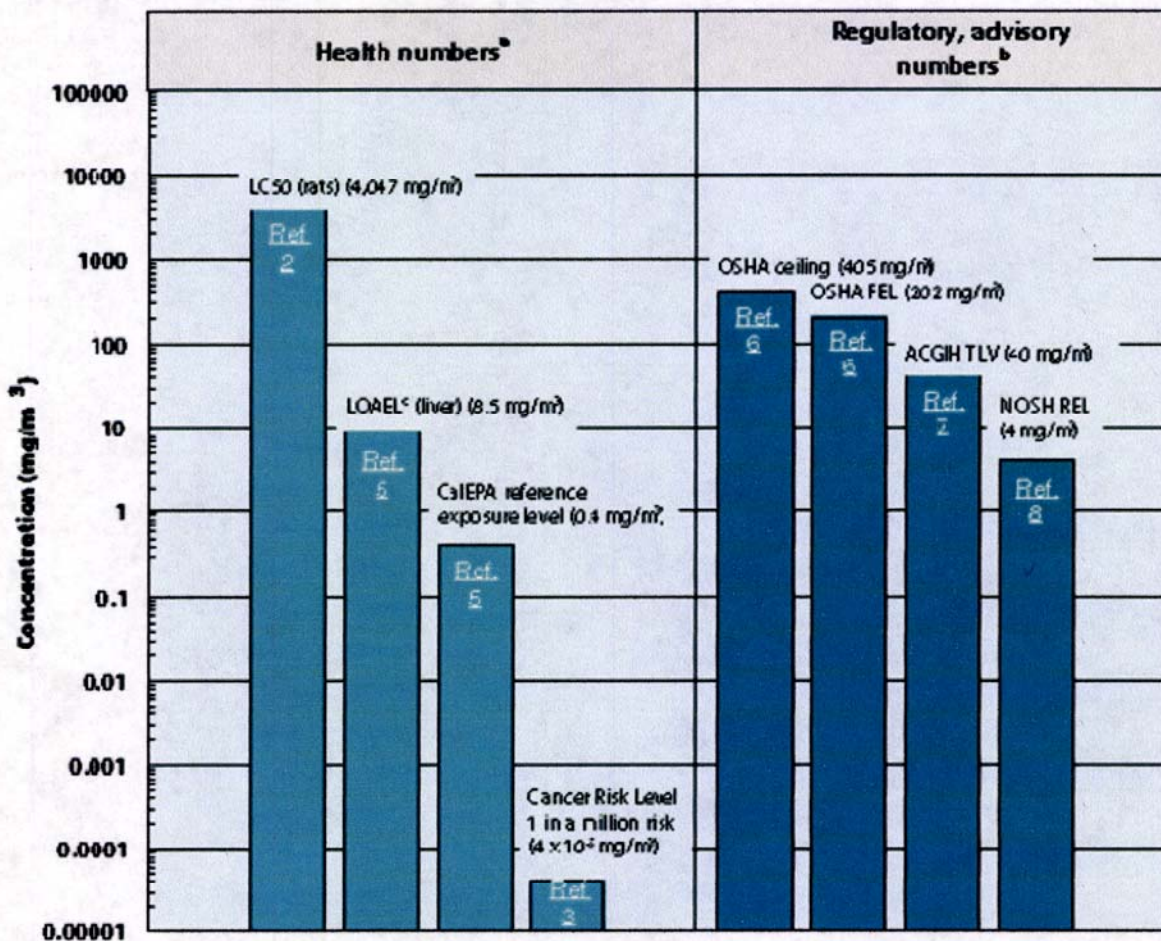
The vapor pressure for ethylene dichloride is 64 mm Hg at 20 °C, and its log octanol/water partition coefficient (log  $K_{ow}$ ) is 1.48. (1)

## Conversion Factors:

*To convert concentrations in air (at 25°C) from ppm to  $\text{mg}/\text{m}^3$ :  $\text{mg}/\text{m}^3 = (\text{ppm}) \times (\text{molecular weight of the compound}) / (24.45)$ . For ethylene dichloride:  $1 \text{ ppm} = 4.05 \text{ mg}/\text{m}^3$ . To convert concentrations in air from  $\mu\text{g}/\text{m}^3$  to  $\text{mg}/\text{m}^3$ :  $\text{mg}/\text{m}^3 = (\mu\text{g}/\text{m}^3) \times (1 \text{ mg}/1,000 \mu\text{g})$ .*

## Health Data from Inhalation Exposure

### 1,2-Dichloroethane



**ACGIH TLV**--American Conference of Governmental and Industrial Hygienists' threshold limit value expressed as a time-weighted average; the concentration of a substance to which most workers can be exposed without adverse effects.

**LC<sub>50</sub> (Lethal Concentration<sub>50</sub>)**--A calculated concentration of a chemical in air to which exposure for a specific length of time is expected to cause death in 50% of a defined experimental animal population.

**NIOSH REL**--National Institute of Occupational Safety and Health recommended exposure limit; NIOSH-recommended exposure limit for an 8- or 10-h time-weighted-average exposure and/or ceiling.

**OSHA PEL**--Occupational Safety and Health Administration's permissible exposure limit expressed as a time-weighted average; the concentration of a substance to which most workers can be exposed without adverse effect averaged over a normal 8-h workday or a 40-h workweek.

**OSHA PEL ceiling value**--OSHA's permissible exposure limit ceiling value; the concentration of a substance that should not be exceeded at any time.

The health and regulatory values cited in this factsheet were obtained in December 1999.

<sup>a</sup>Health numbers are toxicological numbers from animal testing or risk assessment values developed by EPA.

<sup>b</sup>Regulatory numbers are values that have been incorporated in Government regulations, while advisory numbers are nonregulatory values provided by the Government or other groups as advice. OSHA numbers are regulatory, whereas NIOSH and ACGIH numbers are

advisory.

<http://www.epa.gov/ttn/atw/hlthef/di-ethan.html>

<sup>c</sup>The NOAEL is from the critical study used as the basis for the CalEPA chronic reference exposure level.

<sup>d</sup>These cancer risk estimates were derived from oral data and converted to provide the estimated inhalation risk.

## References

1. Agency for Toxic Substances and Disease Registry (ATSDR). *Toxicological Profile for 1,2-Dichloroethane*. Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA. 1992.
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## Unregulated

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# MTBE (methyl-t-butyl ether)in Drinking Water

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### What is MTBE?

MTBE is a member of a group of chemicals commonly known as fuel oxygenates. Oxygenates are added to fuel to increase its oxygen content. MTBE is used in gasoline throughout the United States to reduce carbon monoxide and ozone levels caused by auto emissions. MTBE replaces the use of lead as an octane enhancer since 1979. For additional information, please go to [EPA's general MTBE site](#).

### How does MTBE contaminate water supplies?

Releases of MTBE to ground and surface water can occur through [leaking underground storage tanks](#) and pipelines, spills, emissions from marine engines into lakes and reservoirs, and to some extent from air deposition.

### How do I know if I have MTBE in my water?

You can determine if your water contains MTBE the following ways. If your drinking water is supplied by a public water system, you can contact the system directly and ask whether they monitor for MTBE and what levels, if any, have been detected. In 2001, public water systems serving most of the population were required to monitor for MTBE. If you have a private well, your local health department may be able to tell you if MTBE has been found in water in your area.

If you want to get your water tested, call the Safe Drinking Water Hotline (800-426-4791) or visit our [certified labs page](#) to get the phone number for the office in your state that certifies drinking water laboratories.

### How can I remove MTBE from my water?

Public water systems can use existing technologies such as air stripping, granular activated carbon (GAC), and advanced oxidation to remove MTBE contamination. Some home treatment units can also remove MTBE in tap water. The EPA does not certify the effectiveness of home treatment units since it only regulates public water supplies.

The following are links to information on home treatment units: [EPA Disclaimer](#)

- [NSF International](#) has a respected certification program for home treatment systems. They do certify home treatment systems for MTBE and other regulated contaminants.
- Another source of information on home treatment devices is the [Water Quality Association](#).
- [The Underwriters Laboratories, Inc.](#) website also provides further insight into home treatment devices.

### What is the Office of Water doing to address MTBE concerns?

Due to its widespread use, reports of MTBE detections in the nation's ground and surface water supplies are increasing. The Office of Water is actively involved in identifying the issues and addressing the concerns over the potential presence of MTBE in our water supplies. The Office of Water is participating in MTBE projects in the following areas:

#### Blue Ribbon Panel

EPA established a panel of leading experts in the fields of public health, the scientific community, automotive fuels, water utilities, and local and State environmental officials to focus on the issues posed by the continued use of MTBE and other oxygenates in gasoline. The panel's charge was to:

- look at the role of oxygenates in meeting clean air standards;
- evaluate its efficiency and other alternatives;
- assess the behavior of oxygenates in the environment;
- review known health effects;
- look at the cost of production and use and the product's availability;
- study causes of ground and drinking water contamination from motor vehicle fuels;
- and examine cleanup technologies for water and soil.

In September 1999, the panel released its final report on the findings and recommendations on how best to ensure public health and environmental protection while maintaining clean air and water benefits.

- [Blue Ribbon Panel Web site](#)

# Gasoline additive

From Wikipedia, the free encyclopedia

**Gasoline additives** increase gasoline's octane rating or act as corrosion inhibitors or lubricants, thus allowing the use of higher compression ratios for greater efficiency and power, however some carry heavy environmental risks. Types of additives include metal deactivators, corrosion inhibitors, oxygenates and antioxidants.

The Clean Air Act was put into place in January 1995 in the United States of America as part of the efforts of the Environmental Protection Agency. This act requires deposit control additives (DCAs) be added to all gasolines. This type of additive is a detergent additive that acts as a cleansing agent in small passages in the carburetor or fuel injectors. This in turn serves to ensure a consistent air and fuel mixture that will contribute to better gas mileage.

## Additives

- Hybrid compound blends
  - Combustion catalyst: an organometallic compound which lowers the ignition point of fuel in the combustion chamber reducing the temperature burn from 1200 degrees to 800 degree F
  - Catalyst additives prolongs engine life and increases fuel economy
  - Burn rate modifier increases the fuel burn time, resulting in an increased fuel efficiency
  - Polymerization increases fuel ignition surface area resulting in increased power from ignition
  - Stabilizer/demulsifier/dispersant: prolongs life of fuel and prevents water contamination
  - Corrosion inhibitor prevents corrosion of tank and fuel system
  - Deposit control additives, acting as detergents, clean the engine
- Oxygenates
  - Alcohols:
    - Methanol (MeOH)
    - Ethanol (EtOH)
    - Isopropyl alcohol (IPA)
    - *n*-butanol (BuOH)
    - Gasoline grade *t*-butanol (GTBA)
  - Ethers:
    - Methyl tert-butyl ether (MTBE) Now outlawed in many states for road use.
    - Tertiary amyl methyl ether (TAME)
    - Tertiary hexyl methyl ether (THEME)
    - Ethyl tertiary butyl ether (ETBE)
    - Tertiary amyl ethyl ether (TAEE)
    - Diisopropyl ether (DIPE)
- Antioxidants, stabilizers
  - Butylated hydroxytoluene (BHT)
  - 2,4-Dimethyl-6-tert-butylphenol
  - 2,6-Di-tert-butylphenol (2,6-DTBP)
  - p-Phenylenediamine
  - Ethylene diamine

**Cathleen T. Ridgley - 21st Mortgage Corp. mailing address for WSW-5**

---

**From:** Christine Dupuis <cdupuis@ecsconsult.com>  
**To:** "Cathleen T. Ridgley" <RIDGLECT@dhec.sc.gov>  
**Date:** 12/9/2010 3:00 PM  
**Subject:** 21st Mortgage Corp. mailing address for WSW-5

---

**21st Mortgage Corporation**

620 Market St # 100  
Knoxville, TN 37902-2207  
(865) 523-2120

## Cathleen T. Ridgley - PPB Analogy

---

**From:** Susan B. Fulmer  
**To:** Ridgley, Cathleen T.  
**Date:** 12/10/2010 12:26 PM  
**Subject:** PPB Analogy

---

One part per billion is equivalent to about 3 seconds out of a century. (I pulled this from wiki-pedia).

Other options (from <http://www.waterontheweb.org/resources/conversiontables.html>)

### **One-Part-Per-Billion**

one 4-inch hamburger in a chain of hamburgers circling the earth at the equator 2.5 times  
one silver dollar in a roll of silver dollars stretching from Detroit to Salt Lake City  
one kernel of corn in a 45-foot high, 16-foot diameter silo  
one sheet in a roll of toilet paper stretching from New York to London  
one second of time in 32 years

### **And also from Neal Stephenson (1995. Zodiak , Bantam Books)**

1 ppb (part-per-billion) = a drop in a railroad tanker car

I'd go with either a time analogy, the silo, or the tanker car. Distances might be hard for some people to visualize.

## **Twenty Five (25) Elements of a Comprehensive Risk and Crisis Communication Plan**

**Dr. Vincent T. Covello**  
**Center for Risk Communication**

(Adapted from Hyer RN, Covello VT. *Effective Media Communication during Public Health Emergencies: A WHO Handbook*, WHO/CDS/2005.31, World Health Organization, Geneva, 2005,  
[www.who.int/csr/resources/publications/WHO\\_CDS\\_2005\\_31/en/](http://www.who.int/csr/resources/publications/WHO_CDS_2005_31/en/) or [www.amazon.com](http://www.amazon.com))

- 1) Identify all anticipated scenarios for which risk, crisis, and emergency communication plans are needed, including worst cases and low probability, high consequence events
- 2) Describe and designate staff roles and responsibilities for different risk, crisis, or emergency scenarios
- 3) Designate who in the organization is responsible and accountable for leading the crisis or emergency response
- 4) Designate who is responsible and accountable for implementing various crisis and emergency actions
- 5) Designate who needs to be consulted during the process
- 6) Designate who needs to be informed about what is taking place
- 7) Designate who will be the lead communication spokesperson and backup for different scenarios
- 8) Identify procedures for information verification, clearance, and approval
- 9) Identify procedures for coordinating with important stakeholders and partners (for example, with other organizations, emergency responders, law enforcement, elected officials, and provincial, and federal government agencies)
- 10) Identify procedures to secure the required human, financial, logistical, and physical support and resources (such as people, space, equipment and food) for communication operations during a short, medium and prolonged event (24 hours a day, 7 days a week if needed)
- 11) Identify agreements on releasing information and on who releases what, when, and how policies and procedures regarding employee contacts from the media
- 12) Include regularly checked and updated media contact lists (including after-hours news desks)
- 13) Include regularly checked and updated partner contact lists (day and night)
- 14) Identify schedule for exercises and drills for testing the communication plan as part of larger preparedness and response training
- 15) Identify subject-matter experts (for example, university professors) willing to collaborate during an emergency, and develop and test contact lists (day and night); know their perspectives in advance
- 16) Identify target audiences
- 17) Identify preferred communication channels (for example, telephone hotlines, radio announcements, news conferences, Web site updates, and faxes) to communicate with the public, key stakeholders and partners

- 18) Include message maps for core, informational, and challenge questions
- 19) Include message maps with answers to frequently asked and anticipated questions from key stakeholders, including key internal and external audiences
- 20) Include holding statements for different anticipated stages of the crisis
- 21) Include fact sheets, question-and-answer sheets, talking points, maps, charts, graphics, and other supplementary communication materials
- 22) Include a signed endorsement of the communication plan from the organization's director
- 23) Include procedures for posting and updating information on the organization's Web site
- 24) Include communication task checklists for the first 2, 4, 8, 12, 16, 24, 48 hours, and 72 hours
- 25) Include procedures for evaluating, revising, and updating the risk and crisis communication plan on a regular basis

## Checklist for Risk Communication Fact Sheets

The following checklist should be considered when developing fact sheets.

### ***Plan your fact sheet***

- Know your audience
  - Who are you trying to reach?
  - What does your audience want to know?
- Identify your purpose
  - Why do you want to distribute a fact sheet?
  - What would you like your audience to know?

### ***Make it easy for people to find the information they want***

- Provide answers for the questions people are asking in the right format
  - What is happening related to my concerns or issues?
  - How does this affect me?

### ***Use understandable text and illustrations***

- Keep it as simple as possible
- Avoid using jargon
- Cut down on use of acronyms and define the ones you do use
- Use illustrations instead of tables and charts full of data
- Focus on the big picture – don't use too many details

### ***Use as few numbers as possible. If you need to use numbers, then consider:***

- Remember that numbers are not second nature to most people
- Be aware of the numerator effect
- Consider using an analogy to explain small amounts and relate numbers to something familiar (e.g., ppm = 1 inch in 16 miles or ppb = 1 second in 32 years)
- Whole numbers and fractions are better than decimal points
- If you must use a scientific notation, explain it first, then be consistent ( $10^{-5}$  vs.  $1 \times 10^{-5}$ )
- Explain inverse relationships (e.g., billion > million but ppb < ppm)

### ***Design a visually-appealing and user friendly fact sheet***

- Use visual illustrations, graphics, and photos as much as possible
- Use bullets instead of long paragraphs of text
- Break up text by using a question & answer format or by using representative headings

### ***Make it easy for people to provide feedback or request more information***

- Provide a point of contact
- Provide other resources of information

Message Map Template  
Risk Communication Workshop  
Vincent T. Covello, Ph.D.  
© 2002

|  |
|--|
| <p><b><u>Stakeholder:</u></b></p> <p><b><u>Question/Concern/Issue:</u></b></p> |
|--|

|   |
|---|
| <p><b><u>Key Message 1.</u></b></p><br><br><br><br><p>Keywords:</p> |
|---|

|   |
|---|
| <p><b><u>Key Message 2.</u></b></p><br><br><br><br><p>Keywords:</p> |
|---|

|   |
|---|
| <p><b><u>Key Message 3.</u></b></p><br><br><br><br><p>Keywords:</p> |
|---|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>1.1</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>2.1</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>3.1</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>1.2</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>2.2</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>3.2</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>1.3</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>2.3</u></b></p> |  |
|---|--|

|   |  |
|---|--|
| <p><b><u>Keywords:</u></b><br/><b><u>Supporting</u></b><br/><b><u>Information</u></b><br/><b><u>3.3</u></b></p> |  |
|---|--|



**GUARANTEE TEMPLATE**

Use when asked to guarantee an event or outcome

**Steps**

- Indicate that the question is about the future
- Indicate that the past and the present help predict the future
- Bridge to known facts, processes or actions

**Example:** (1) "You've asked me for a guarantee, to promise something about the future; (2) The best way I know to talk about the future is to talk about what we know from the past and the present; (3) And what we know is..." **OR**

"What I can guarantee [assure; promise; tell you] is..."

**YES/NO TEMPLATE**

Use when asked a yes/no question that cannot be answered yes or no

**Steps**

- Indicate you have been asked a yes/no question
- Indicate it would be difficult to answer the question yes or no
- Indicate why it would be difficult to answer the question yes or no
- Respond to the underlying concern

**IDK (I DON'T KNOW) TEMPLATE**

Use when you don't know, can't answer, or aren't best source

**Steps**

- Repeat the question (without negatives)
- Say "I wish I could answer that"; or "My ability to answer is limited by ...;" or "I don't know"
- Say why you can't answer
- Provide a follow up with a deadline
- Bridge to what you can say

**Example:** (1) "You've asked me about...; (2) I wish I could answer...; (3) We're still looking into it; (4) I expect to be able to tell you more by ...; (5) What I can tell you is..."

**FALSE ALLEGATION TEMPLATE**

Use when responding to a hostile question, false allegation, or criticism

**Steps**

- Repeat/paraphrase the question without repeating the negative; repeat instead the opposite; the underlying value or concern, or use more neutral language
- Indicate the issue is important
- Indicate what you have done, are doing, or will do to address the issue

**Example:** (1) "You've raised a serious question about "x"; (2) "x" is important to me; (3) We are doing the following to address "x."

**27/9/3 TEMPLATE**

Use when responding to any high stress or emotionally charged question

**Recommendation: Be brief and concise in your first response: no more than 27 words, 9 seconds, and 3 messages**

**PRIMACY/RECENCY TEMPLATE**

Use when responding to any high stress or emotionally charged question

**Recommendation: Provide the most important items or points first and last**

**RULE OF 3 TEMPLATE**

Use when responding to any high stress or emotionally charged question

**Recommendation: Provide no more than three messages, ideas, or points at a time**

**Example:** My three main points are: (1) ...; (2)....; and (3)....

**Basic Risk Communication/Message Mapping Templates\***

*Use these templates to create effective messages in high concern situations*

**CCO TEMPLATE**

Use when asked a question with high-emotion

Steps:

- Compassion
- Conviction
- Optimism

**Example:** (1) "I am very sorry to hear about...."; (2) I believe that...;(3) In the future, I believe that ....

**"WHAT IF" TEMPLATE**

Use when asked a low probability "what if, what might happen" question

Steps:

- Repeat the question (without negatives)
- Bridge to "what is"
- State what you know factually

**Example:** (1) "You've asked me what might happen if...."; (2) I believe there is value to talk about what is, what we know now; (3) And what we know is..."

-----  
\*Source: Dr. Vincent T. Covello , Center for Risk Communication, Copyright 2009

**BRIDGING TEMPLATES**

Use when you want to return to your key points or redirect the communication

1. "And what's most important to know is..."
2. "However, what is more important to look at is..."
3. "However, the real issue here is..."
4. "And what this all means is..."
5. "And what's most important to remember is ..."
6. "With this in mind, if we look at the bigger picture..."
7. "With this in mind, if we take a look back..."
8. "If we take a broader perspective, ..."
9. "If we look at the big picture..."
10. "Let me put all this in perspective by saying..."
11. "What all this information tells me is..."
12. "Before we continue, let me take a step back and repeat that..."
13. "Before we continue, let me emphasize that..."
14. "This is an important point because..."
15. "What this all boils down to is..."

**1N=3P TEMPLATE (ONE NEGATIVE EQUALS THREE POSITIVES) /BAD NEWS TEMPLATE**  
Use when breaking bad news or stating a negative

**Recommendation:** Balance one bad news or negative message with a least three or more positive, constructive, or solution oriented messages

**AGL-4 TEMPLATE (AVERAGE GRADE LEVEL MINUS FOUR TEMPLATE)**

Use when responding to any high stress or emotionally charged question

**Recommendation:** Provide information at four or more grade levels below the average grade level of the audience.

## The 103 Most Frequently Asked Questions at Environmental Clean Up and Hazardous Waste Sites

Vincent T. Covello, Ph.D.  
Center for Risk Communication  
August, 2008  
Copyright 2008

### **Health Risk Concerns**

1. Am I at risk from the contamination?
2. What are the risks to my children?
3. What are the risks to my pets?
4. What are the impacts to natural habitat (i.e., fish and other species)?
5. Can my children and pets play in the soil?
6. What health effects can I expect to see if I've been exposed to site contaminants?
7. What are the short-term effects?
8. What are the long-term effects?
9. I have a recent health problem (i.e., headaches, rashes, etc.) that I never had before; could the site contamination have caused this problem?
10. Have any health problems been reported so far?
11. How many people have become ill as a result of the site?
12. Are you going to test residents for exposure?
13. Can you set up a temporary, local health center or clinic where we can be tested?
14. I'm pregnant (or planning to be). Will the contaminants affect my unborn child?
15. Is it safe to garden in my yard?
16. Is it safe to eat vegetables grown in my garden?
17. Is it safe to drink the water?
18. Will you provide us with bottled water?
19. Is it safe to bath or shower in the water?
20. Is it safe to water our lawns with the potentially contaminated water?
21. Is it safe to mow our lawns if the soil underneath is potentially contaminated?
22. Is it safe to use the river for fishing and other recreational purposes?
23. Is it safe to eat the fish?
24. What's being done right now to protect mine and my family's health?
25. Will capping the site protect my health?
26. How serious is the contamination?
27. What happens if my ventilation system shuts down?
28. Can I get sick from breathing the air?

### **Investigation/Data Concerns**

1. Where did the contamination come from?
2. How bad is the problem?
3. How much contamination is there?
4. Is the contamination moving and, if so, in what direction?
5. Are there any other contaminants beside the ones we were told about?

6. How can you be sure there are no other contaminants?
7. Will you conduct testing/sampling to make sure the soil in my yard is free of contaminants?
8. How will you decide where to sample and where not to sample?
9. Who determines what levels of contamination are considered "safe"?
10. Why don't you clean up all of the contamination, instead of allowing some to remain?
11. How do you know whether my drinking water is contaminated?
12. How do you know whether my yard has contaminated soil?
13. How do you know that it's safe to breathe the air?
14. How do you know whether it's safe to go fishing?
15. Why hasn't my well been sampled?
16. Why have some people received bottled water and not others?
17. Can I see the results of the testing you've done on my property?
18. Can I see the results of testing you've done on other properties in the neighborhood?
19. Do I have to give you access to sample my property?
20. What if I refuse access to my property?
21. Do I need to be home and take time off work while you're sampling my property?
22. I'm moving into the area; can I see the results of sampling that's been done?
23. Who will be doing the sampling?
24. How can we be sure the sampling data is accurate?
25. How can we be sure that future sampling won't find things that you didn't find now?
26. Can you guarantee the accuracy of the sampling results?

### **Cleanup Concerns**

1. How exactly are you going to clean up the site?
2. Why was this particular cleanup method chosen over other options?
3. How long will the cleanup take?
4. When are you going to start the cleanup?
5. Who is going to perform the cleanup?
6. What process was used (or will be used) to select contractors to perform the cleanup?
7. How will cleanup performance be monitored or evaluated?
8. How much will the cleanup cost?
9. Who will pay for the cleanup?
10. Will my tax dollars have to pay to address this problem that someone else caused?
11. Can taxpayers be reimbursed?
12. How will you know when everything is "clean"?
13. Why are you going to just "cap" everything and leave the contamination there?
14. Why not dig up the contamination?
15. Is dredging safe?
16. Won't dredging just 'stir up' things and contaminate the water even more?
17. What if the cleanup doesn't work?
18. Can you guarantee that all of the contamination will be removed?
19. How will my quality of life be affected during the cleanup (i.e., noise, traffic, odors, etc.)?
20. After you finish the cleanup, then what? (what happens next?)
21. After the cleanup, will you continue to test to make sure it's still working?

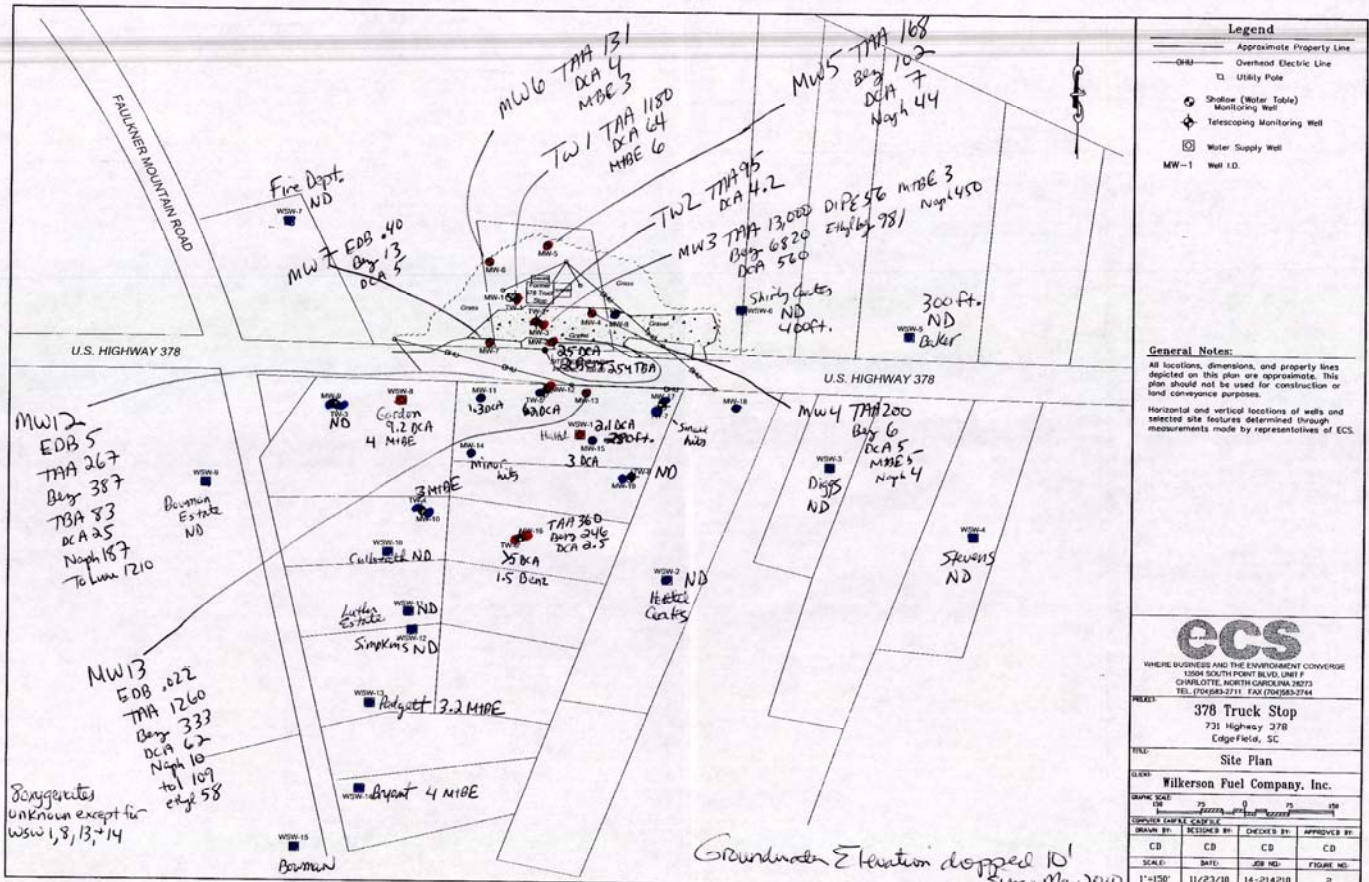
22. What happens if my water (or soil, etc.) is still contaminated after the cleanup?

### **Communication Concerns**

1. Why did it take you so long to tell us about the contamination?
2. How can I trust what you're telling me about the site?
3. How can I trust what you're telling me about my safety?
4. What happens if you find high concentrations of contaminants near my home – how will I know?
5. How will I be informed of what's going on?
6. Will you share the testing data with residents?
7. Will you let us know if something unexpected happens during the cleanup and things get worse?
8. Is there someone local residents can talk to if we have questions or concerns?
9. Where can I get more information about this site?
10. Where can I get more information about similar sites that have already been cleaned up?
11. If a cleanup plan is selected that residents disagree with, is there an appeal process?
12. How will you address public comments?
13. Will you address ALL of the public comments?
14. How do you decide which comments NOT to address?
15. If the majority of residents disagree with how EPA [or other agency] is planning to cleanup the site, will EPA [or other agency] change its mind?
16. There's another site down the road; can you tell me what's going on there?
17. When you first discovered there MIGHT be a problem, why didn't you tell us then?

### **Economic Concerns**

1. If soil is excavated from my yard, will I receive financial assistance to replace plants and shrubbery?
2. My property value has decreased because of the site contamination problem. Will I be compensated for this?
3. I'm concerned that cost will be the driving force behind the agency's selected cleanup option; does community opinion really matter?
4. I was told residents might have to relocate during the site cleanup. Who will pay for my moving costs? What about other expenses I may be forced to incur (i.e., costs of transporting my children to school because they won't be able to take the bus, or daily food costs because I won't have access to my stove and refrigerator, etc.)
5. The site has placed a "negative stigma" on our community that may affect potential investors, developers, or homeowners; what will be done about this?
6. Will this keep our community from developing?
7. Can we get jobs helping with the cleanup?
8. If we can't eat the fish anymore because of health risks, can you give us a food subsidy?
9. Do you have enough money to cover the cleanup costs?
10. What if you discover the cleanup is going to cost more than estimated, what happens then?



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊗ Water Supply Well
- MW-1 Well I.D.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.  
 Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

**ECS**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1506 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704) 683-2711 FAX: (704) 683-2744

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Site Plan**

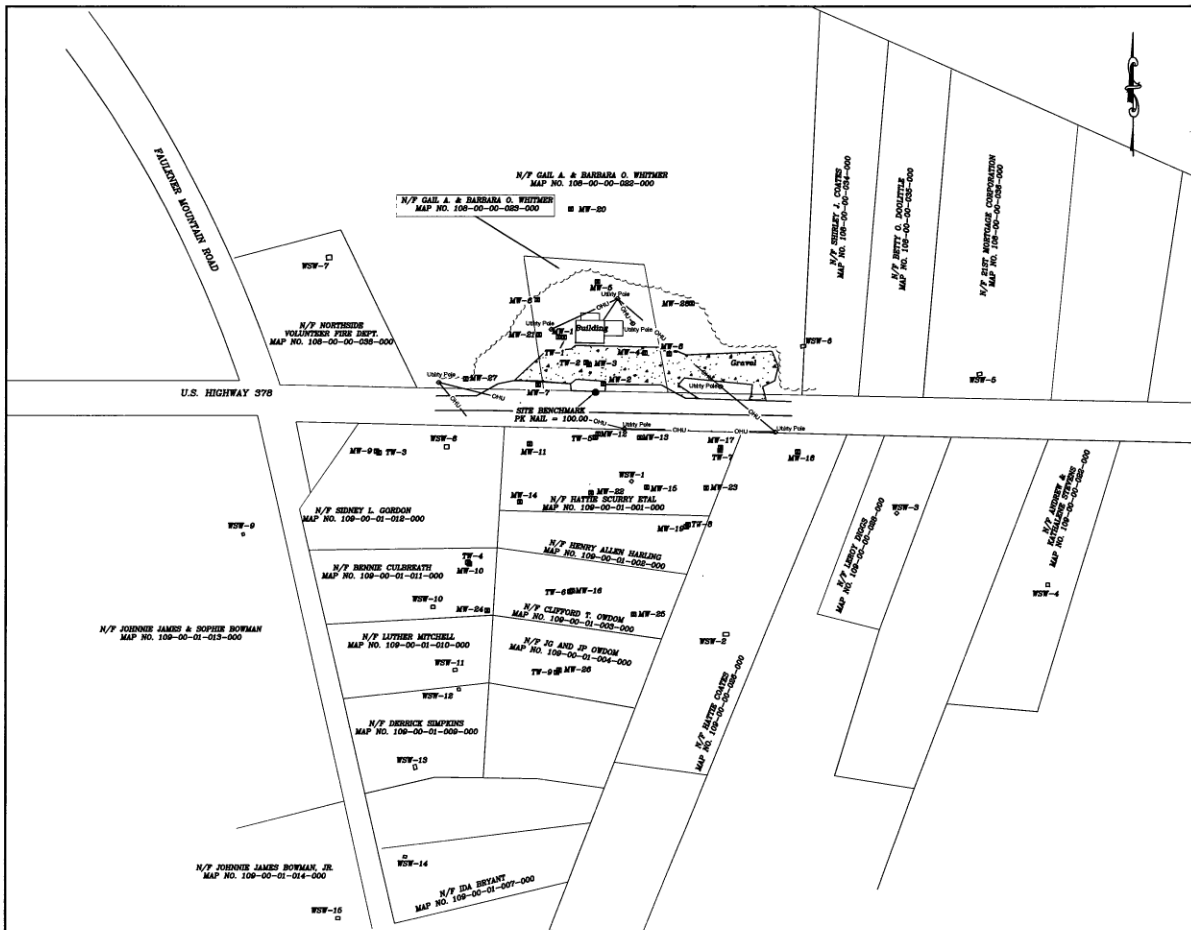
**Client:** Wilkerson Fuel Company, Inc.

**DATE:** 11/23/10

**SCALE:** 1"=150'

|            |            |            |              |
|------------|------------|------------|--------------|
| DRWING NO. | REVISED BY | CHECKED BY | APPROVED BY  |
| CB         | CB         | CD         | CD           |
| SCALE:     | DATE:      | JOB NO.:   | PROJECT NO.: |
| 1"=150'    | 11/23/10   | 14-214210  | 2            |

Groundwater Elevation dropped 10'  
 Since May 2010  
 C/C ↑  
 dropped 2 more ft. since October 2010



**Legend**

MW-1 Well I.D.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

---

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13004 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)883-2711 FAX (704)883-2744

PROJECT: **378 Truck Stop**  
 731 Highway 378  
 Edgemoor, SC

TITLE: **Site Plan**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 1" = 100'

| DESIGNED BY: | CHECKED BY: | APPROVED BY: |
|--------------|-------------|--------------|
| CD           | CD          | CD           |
| SCALE:       | DATE:       | JOB NO.:     |
| 1"=100'      | 12/8/10     | 14-214210    |

FIGURE NO.: 1

Willerson's phone #.

Meeting w/ all next week.

Health concerns (physical exams +  
seeking compensation. <sup>blood work</sup>)

Permanent solution for clean water.

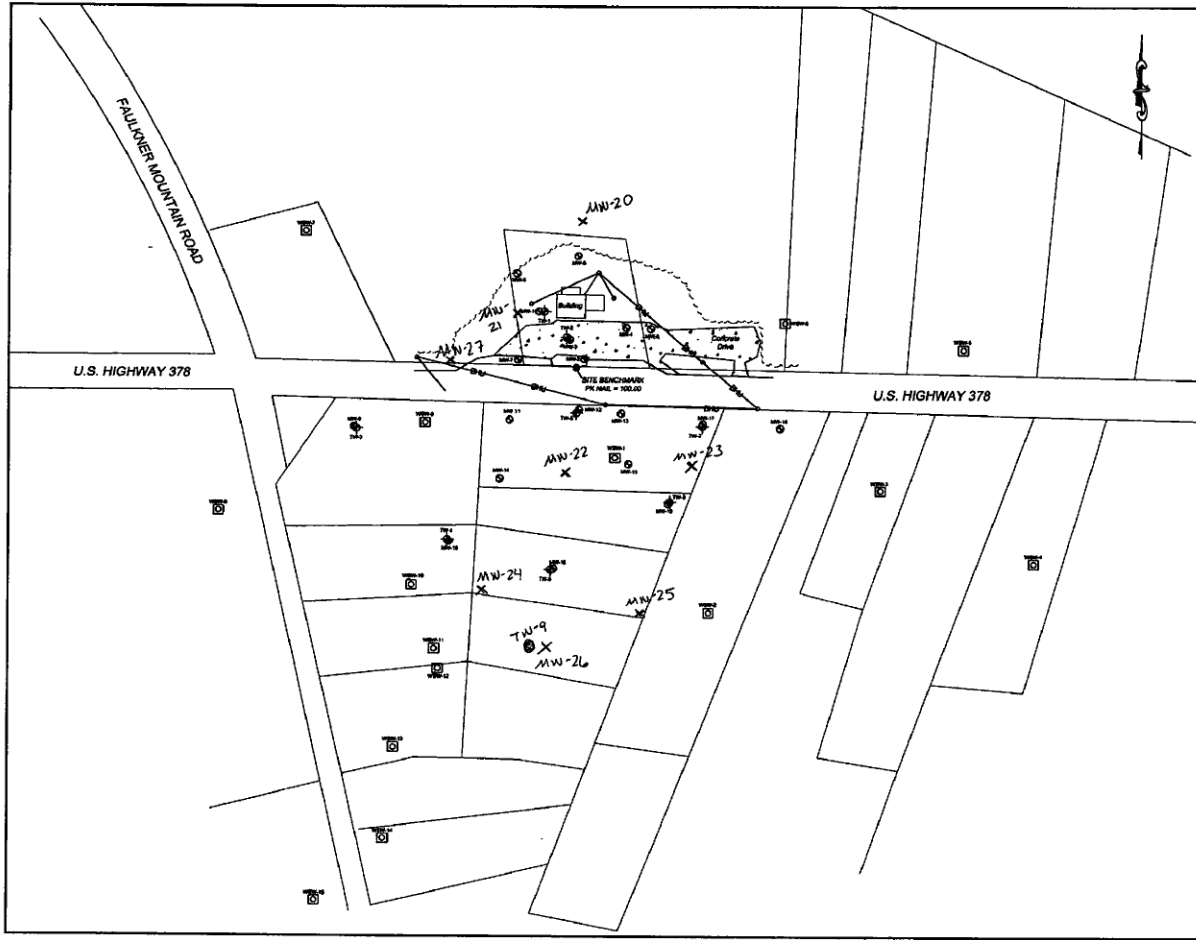
Mr. Gordon thought his well was deepest.  
Bubbles in standing water.



Meeting 378 Truck Stop  
November 17, 2010 | 1-3:00

Donna Rowe  
Donna Mays  
Chris Melluskey.

- 1) Site visit on November 18 to meet  
Hattie Saun / ELS  
Pattij GAC or  
Tommy, also.
- 2) Tell residents  
if they notice any smell / taste  
call us.
- 3) Write clear letters to other well  
owners.
- 4) Make a map showing contamination;
- 5) Explain D/O lines contractor.
- 6) Ask Saun who correspond w/ her.
- 7) Where does Frank live?
- 8) other receptors.



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- MW-1 Well I.D.
- X— Cross Section Transect
- ⊠ Water Supply Well

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

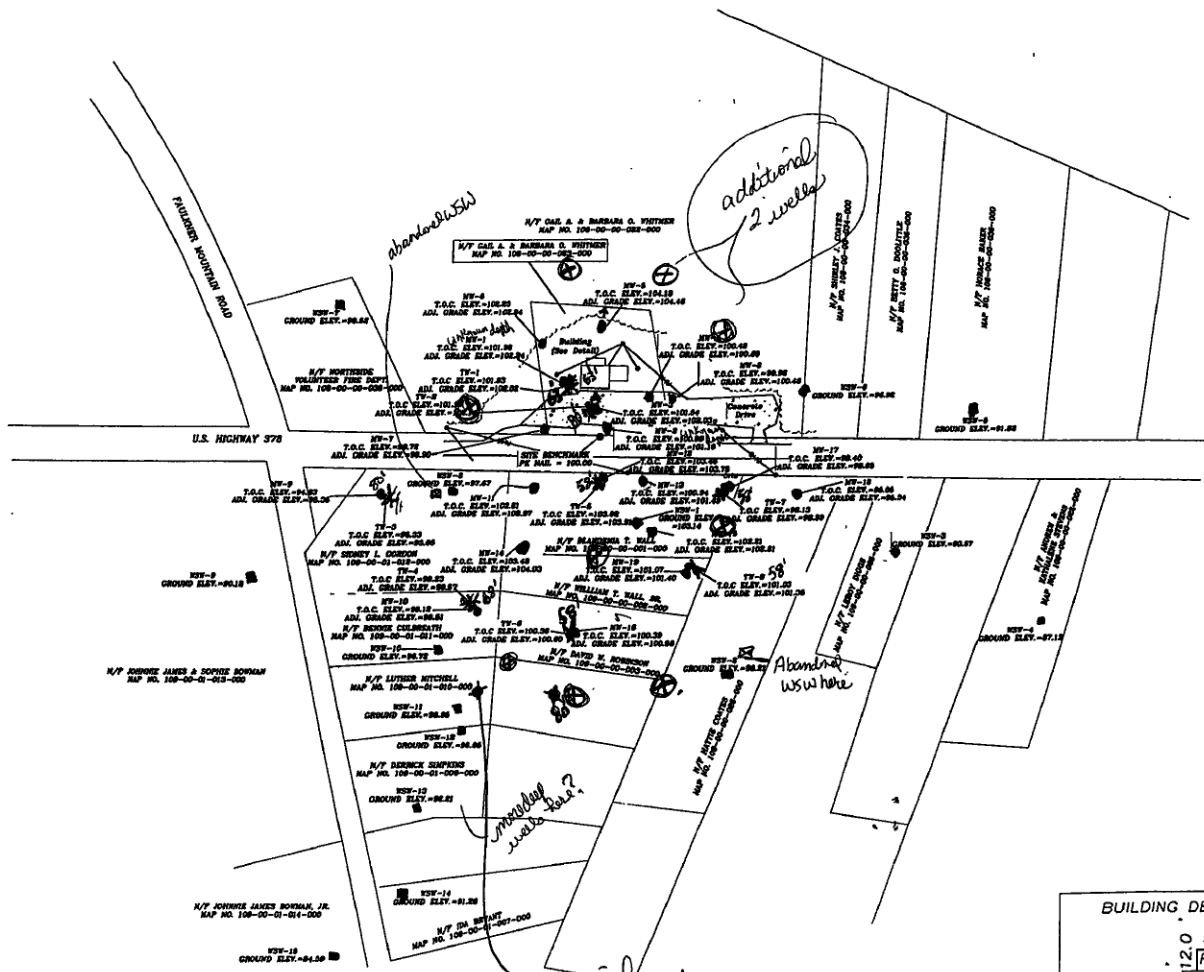
**ECS**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1304 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704) 585-2711 FAX: (704) 585-2744

PROJECT: **378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

TITLE: **Site Plan**

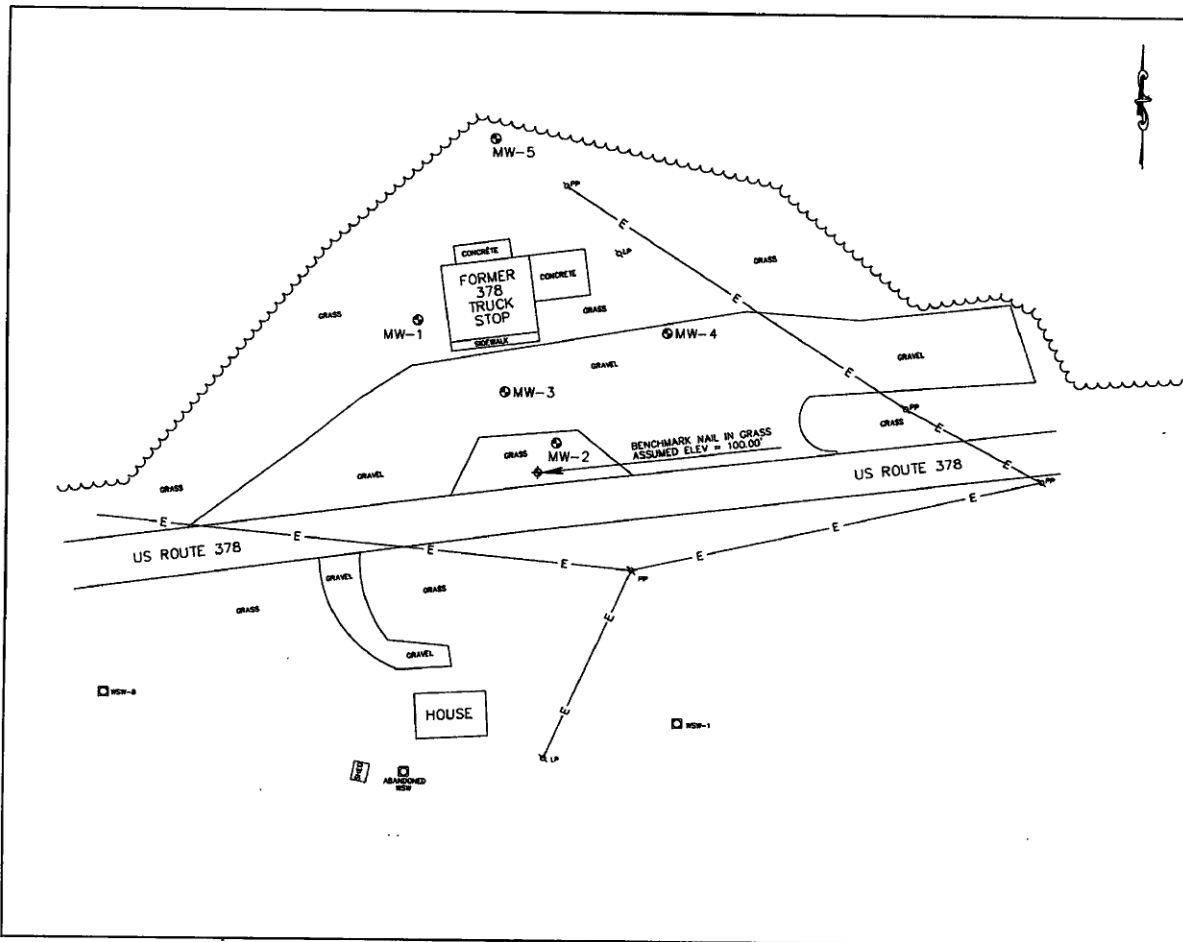
CLIENT: **Wilkerson Fuel Company, Inc.**

|       |          |            |           |
|-------|----------|------------|-----------|
| DATE  | 11/16/10 | JOB NO.    | 14-214210 |
| SCALE | 1"=150'  | FIGURE NO. | 3         |



BUILDING DETAIL

|      |       |
|------|-------|
| 0    | 30.0  |
| 12   | Patio |
| 48.0 |       |
| 35.3 |       |



**Legend**

- Overhead Electric Line
- Utility Pole
- ⊙ Monitoring Well
- ⊠ Water Supply Well

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.  
 Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1204 SOUTH POINT BLVD, UNIT 5  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL (704)883-2711 FAX (704)883-2744

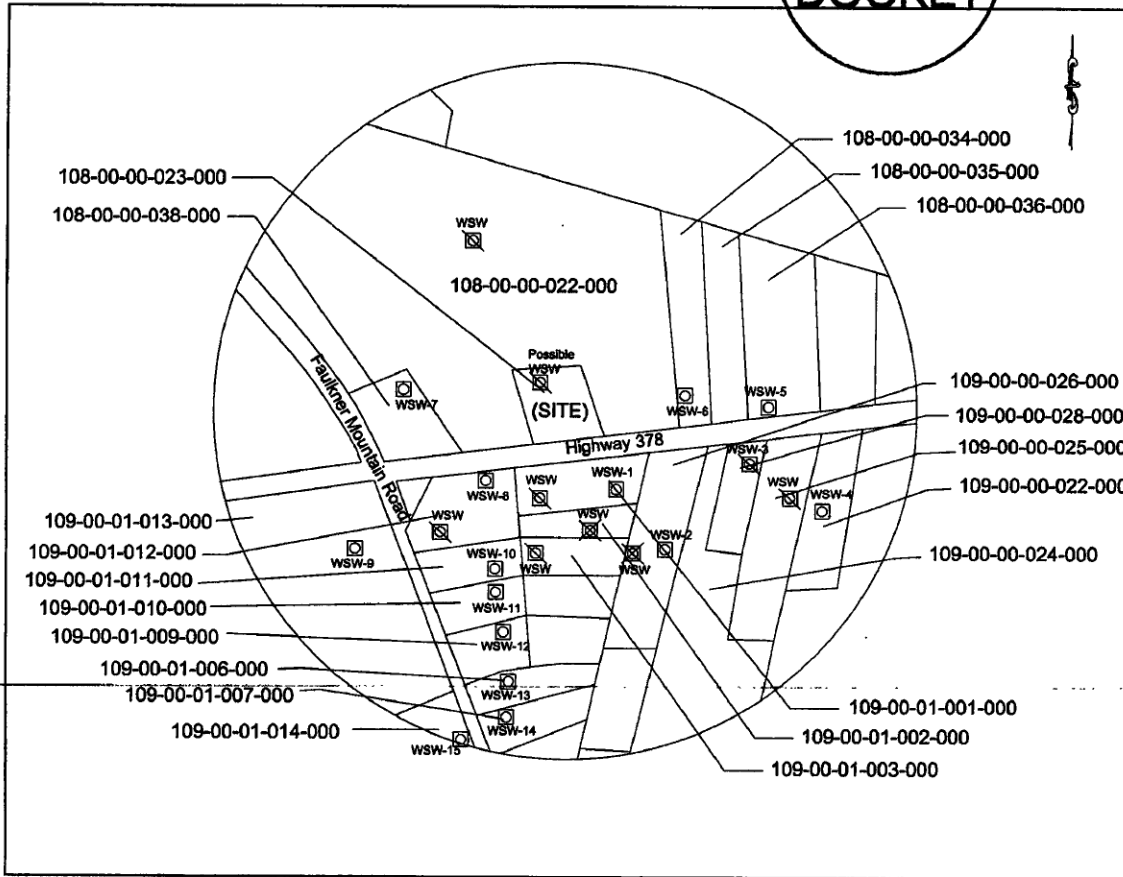
**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Site Plan**

**Wilkerson Fuel Company, Inc.**

|             |           |            |         |
|-------------|-----------|------------|---------|
| DESIGNED BY | CD        | CHECKED BY | CD      |
| APPROVED BY | CD        | DATE       | 6/15/10 |
| JOB NO.     | 14-214210 | FIGURE NO. | 3       |

# iitech UST DOCKET



**Legend**

108-00-00-023-000 PARCEL ID  
 --- PARCEL BOUNDARY  
 [Symbol] WSW-1 WATER SUPPLY WELL  
 [Symbol] DISCONNECTED WSW  
 [Symbol] ABANDONED WSW

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

**WHERE BUSINESS AND THE ENVIRONMENT COME TOGETHER**  
 1300 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28275  
 TEL: (704)65-2711 FAX: (704)65-2714

**378 Truck Stop**  
 721 Highway 378  
 Edgefield, SC

**Site Vicinity Map**

Client: **Wilkerson Fuel Company, Inc.**

|             |          |            |             |
|-------------|----------|------------|-------------|
| DESIGNED BY | DRAWN BY | CHECKED BY | APPROVED BY |
| CD          | CD       | CD         | CD          |
| SCALE       | DATE     | JOB NO.    | FIGURE NO.  |
| 1"=250'     | 6/15/10  | 14-214210  | 2           |

**TABLE 1**  
**SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES <sup>1</sup>**  
**378 TRUCK STOP**

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-7, TW-1, TW-2                                | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | Disconnected WSW               | MW-8   | Wooded Area around site, has WSW for site.  |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | WSW-6                          | -  | WSW-6 tag info: Date: 9/14/00, Depth: 400 ft  |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | Horace Baker                                 | 745 Hwy 378 East, Edgefield, SC 29824        | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft  |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | MW-18  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-17, MW-19, TW-7, TW-8                                     | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-13, TW-5                                    | WSW-1 tag info: Date: 12/91, Depth: 280 ft  |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-14 and MW-15  | Wooded lot behind Scurry residence, resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16 and TW-6   | -   |
| 109-00-01-006-000     | Ulysess Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-13                         | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12                         | -  | -   |
| 109-00-01-010-000     | Mitchell Luther Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10 and TW-4   | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 722 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

Notes:

1. Adjacent/adjoining properties are keyed into Figure 2.

**TABLE 1  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES<sup>1</sup>  
378 TRUCK STOP**

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-7, TW-1, TW-2                                | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | Disconnected WSW               | MW-8   | Wooded Area around site, has WSW for site.  |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | WSW-6                          | -  | WSW-6 tag info: Date: 9/14/00, Depth: 400 ft  |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | Horace Baker                                 | 745 Hwy 378 East, Edgefield, SC 29824        | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft  |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | MW-18  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-17, MW-19, TW-7, TW-8                                     | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-13, TW-5                                    | WSW-1 tag info: Date: 12/91, Depth: 280 ft  |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-14 and MW-15  | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T Owdom                             | Post Office Box 606, Saha, SC 29138          | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16 and TW-6   | -   |
| 109-00-01-006-000     | Ulysses Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-13                         | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12                         | -  | -   |
| 109-00-01-010-000     | Mitchell Luther Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10 and TW-4   | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 722 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | 280 feet  |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

**Notes:**

1. Adjacent/adjoining properties are keyed into Figure 2.

## **Cathleen T. Ridgley - Re: Meeting at 378 Truck Stop In Friday**

---

**From:** Donna H. Rowe  
**To:** Ridgley, Cathleen T.  
**Date:** 11/17/2010 9:30 PM  
**Subject:** Re: Meeting at 378 Truck Stop In Friday

---

Thanks! See you at 10!

My cell phone # is (864) 982-4389.

Donna H. Rowe, M.A., C.M.  
Regional Community Liaison  
South Carolina DHEC - EQC Regions 1 & 2

We Must Learn to Understand One Another  
"Conflicts always occur. It is in the  
resolution of conflicts that human beings stand out.  
Every conflict can and should be calmed by  
talking about and understanding one another's needs."  
--Susan Polis Schutz

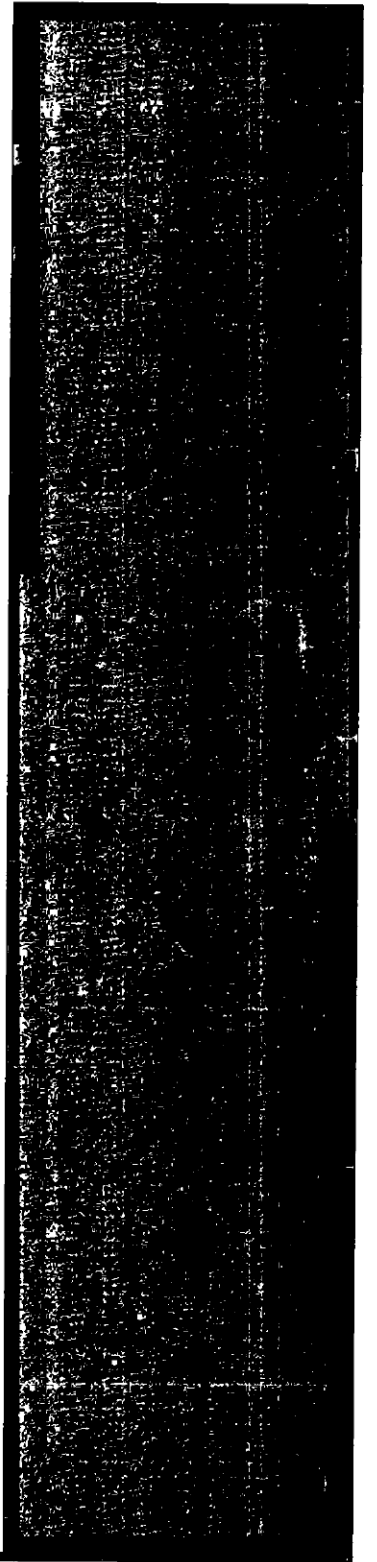
>>> Cathleen T. Ridgley 11/17/10 5:10 PM >>>  
Donna,

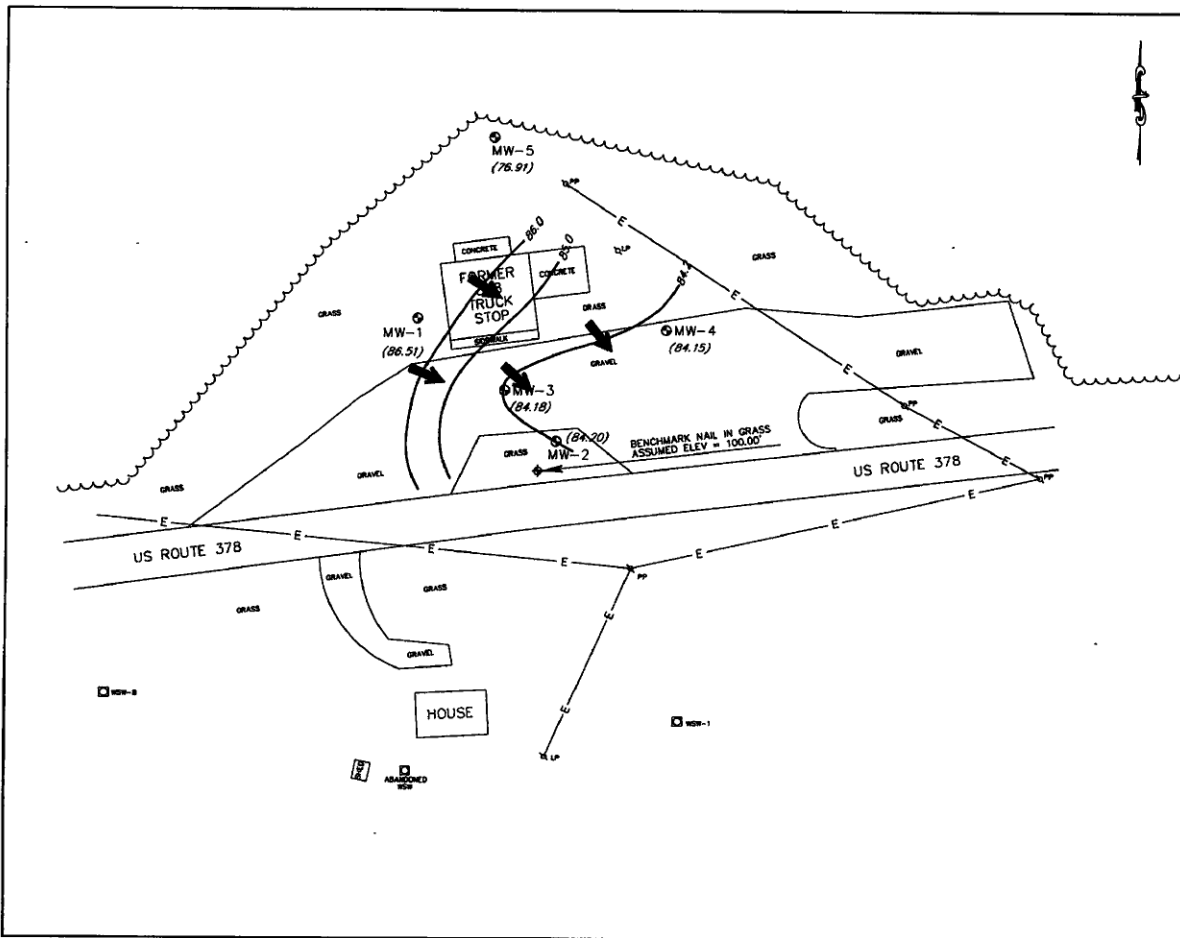
I am e-mailing you to confirm our meeting with Hattie Scurry and Sidney Gordon tomorrow at 10:00. I spoke with both. We'll go to Ms. Scurry's place first. I haven't written the letters yet (to the well owners whose water was clean), but I thought maybe we could drop by each one and give a verbal okay and tell them a letter is on the way (Friday is my AWS day and I'm running out of time).  
My cell number is: 803-727-5307.  
Thanks,

Cathleen Ridgley  
Hydrogeologist  
SCDHEC-Bureau of Land & Waste Mgmt.  
803/896-6633  
Fax: 803/896-6245



**APPENDICES**





**Legend**

- Overhead Electric Line
- Utility Pole
- ⊕ Monitoring Well
- ⊗ Water Supply Well
- (73.71) Groundwater Elevation
- 90.00 Water Table Contour (Dashed where Inferred)
- ➔ Flow Direction Indicator

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximates. This plan should not be used for construction or land conveyance purposes.

Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on May 25, 2010.

Water table contours and flow directions assume homogeneous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13004 SOUTH POINT BLVD. SUITE 7  
 CHASE OTTY, NORTH CAROLINA 28778  
 TEL: (704)983-2711 FAX: (704)983-2744

**PROJECT:**  
 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

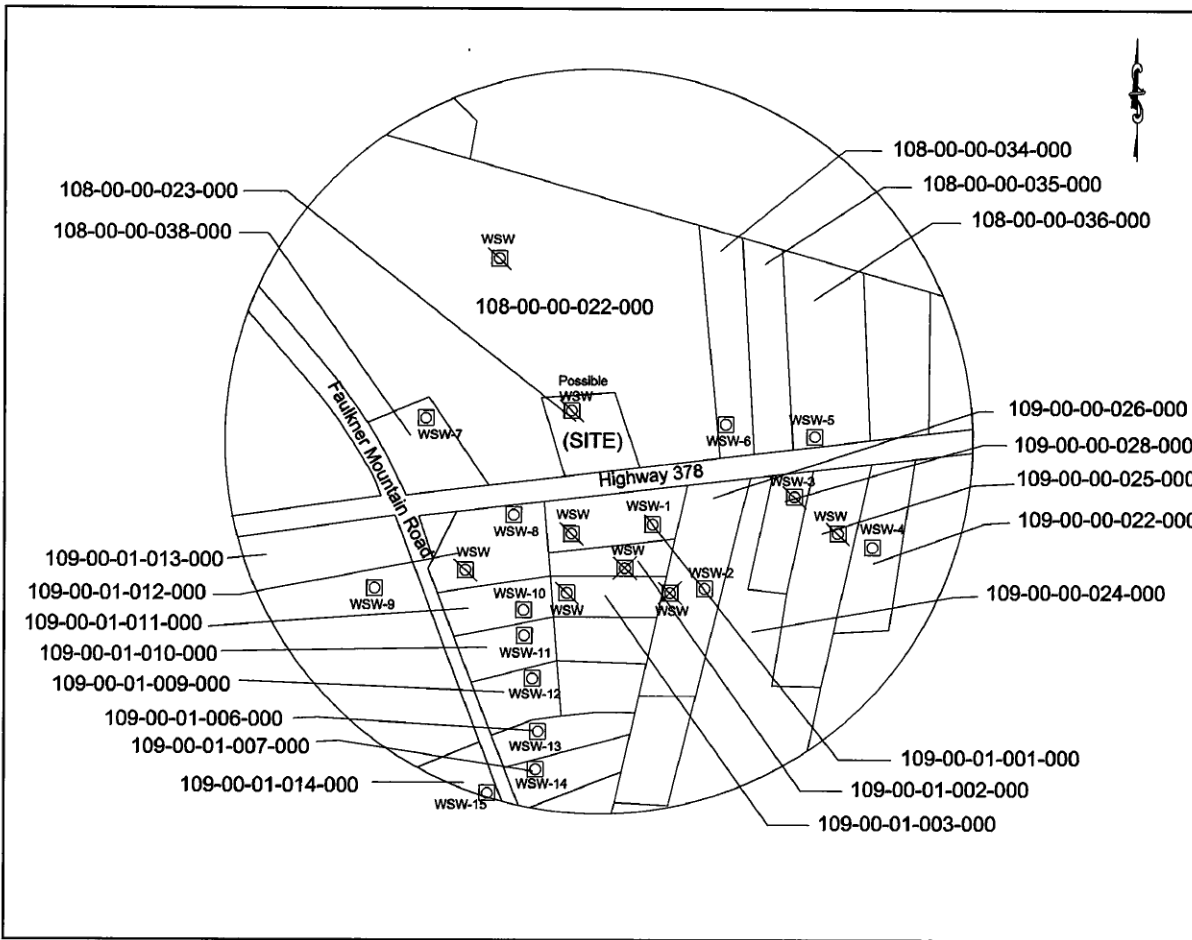
**TITLE:**  
 Groundwater Flow Map

**CLIENT:**  
 Wilkerson Fuel Company, Inc.

**DATE:**  
 6/15/10

| DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY: |
|--------------|-----------|-------------|--------------|
| CD           | CD        | CD          | CD           |

**SCALE:** 1"=50'  
**DATE:** 6/15/10  
**JOB NO.:** 14-214210  
**FIGURE NO.:** 5



**Legend**

|                   |                         |
|-------------------|-------------------------|
| 108-00-00-023-000 | PARCEL ID               |
| ---               | PARCEL BOUNDARY         |
| □                 | WSW-1 WATER SUPPLY WELL |
| ⊗                 | DISCONNECTED WSW        |
| ⊘                 | ABANDONED WSW           |

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13004 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)983-2711 FAX (704)983-2744

PROJECT: **378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

TITLE: **Site Vicinity Map**

CLIENT: **Wilkerson Fuel Company, Inc.**

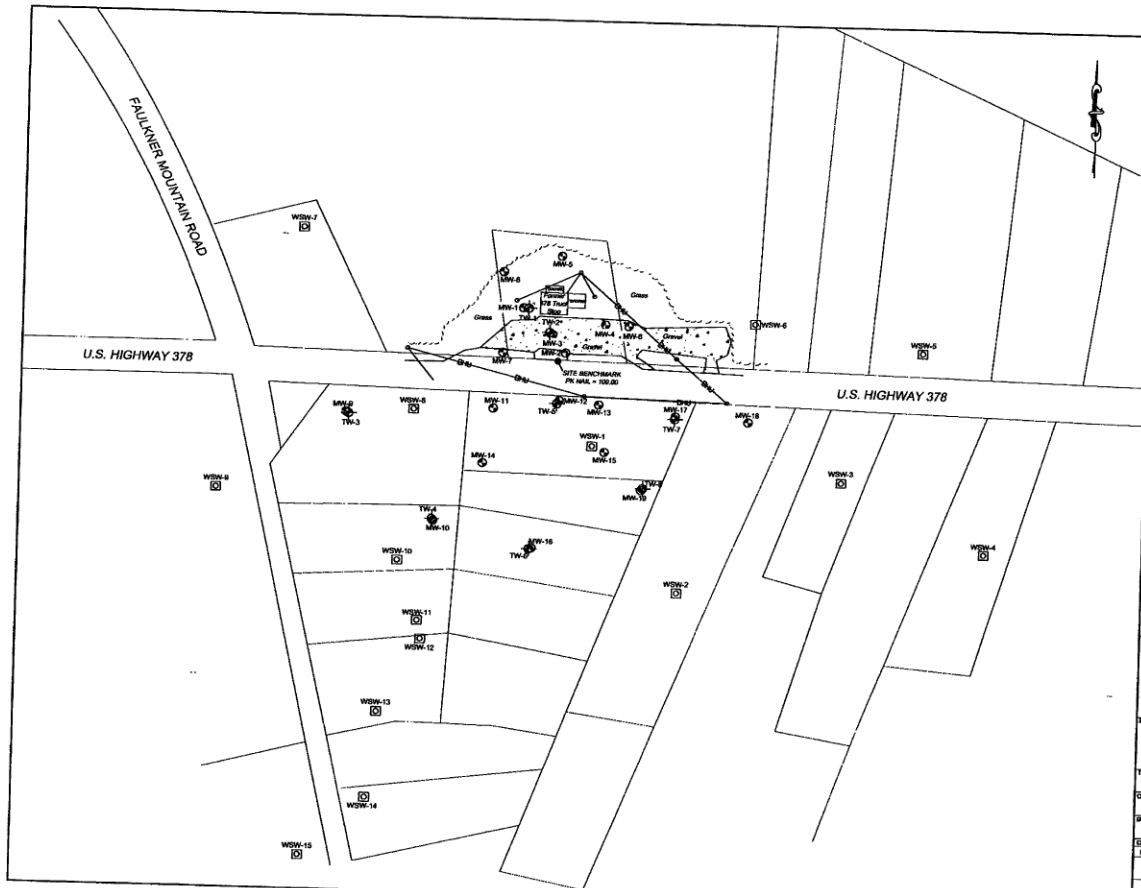
|             |         |             |            |            |    |
|-------------|---------|-------------|------------|------------|----|
| DATE        | BY      | DATE        | BY         | DATE       | BY |
| DESIGNED BY | CD      | RECORDED BY | CD         | CHECKED BY | CD |
| SCALE       | DATE    | JOB NO.     | FIGURE NO. |            |    |
| 1"=250'     | 6/15/10 | 14-214210   | 2          |            |    |

**TABLE 1**  
**SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES<sup>1</sup>**  
**378 TRUCK STOP**

| Parcel Identification | Property Owner Name                         | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|---|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-7, TW-1, TW-2                                | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | Disconnected WSW               | MW-8   | Wooded Area around site, has WSW for site.  |
| 108-00-00-034-000     | Shirley J. Coates                           | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | WSW-6                          | -  | WSW-6 tag info Date: 9/14/00, Depth: 400 ft   |
| 108-00-00-035-000     | Betty O Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | Horace Baker                                | 745 Hwy 378 East, Edgefield, SC 29824        | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft  |
| 108-00-00-038-000     | Northside Volunteer Fire Department         | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                  | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                           | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | MW-18  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                         | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates          | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-17, MW-19, TW-7, TW-8                                     | -   |
| 109-00-00-028-000     | Leroy Diggs                                 | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                         | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-13, TW-5                                    | WSW-1 tag info: Date 12/91, Depth: 280 ft   |
| 109-00-01-002-000     | Henry Allen Harling                         | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-14 and MW-15  | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                           | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16 and TW-6   | -   |
| 109-00-01-006-000     | Ulysses Padgett                             | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-13                         | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                  | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                            | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12                         | -  | -   |
| 109-00-01-010-000     | Mitchell Luther Life Estate                 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                            | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10 and TW-4   | -   |
| 109-00-01-012-000     | Sidney L. Gordon                            | 724 Hwy 378 East, Edgefield, SC 29824        | 724 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman       | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

Notes:

1. Adjacent/adjoining properties are keyed into Figure 2.



- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Utility Pole
  - Show (Water Table) Monitoring Well
  - ⊕ Telescoping Monitoring Well
  - ⊞ Water Supply Well
  - MW-1 Well I.D.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.  
 Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1506 SOUTH POINT BLVD., UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)652-2711 FAX (704)652-2744

**PROJECT:**  
 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

**TITLE:**  
 Site Plan

**CLIENT:**  
 Wilkerson Fuel Company, Inc.

|              |          |           |    |             |     |
|--------------|----------|-----------|----|-------------|-----|
| DATE:        | 12       | 75        | 0  | 75          | 100 |
| DESIGNED BY: | CD       | CD        | CD | CD          | CD  |
| CHECKED BY:  | CD       | CD        | CD | CD          | CD  |
| APPROVED BY: | CD       | CD        | CD | CD          | CD  |
| SCALE:       | BTD      | JW        | MD | FIGURE NO.: | 2   |
| DATE:        | 11/23/10 | 14-214210 |    |             |     |

**TIER II ASSESSMENT REPORT  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, SC  
EDGEFIELD COUNTY  
UST PERMIT NO. 07960**

**Prepared For:**

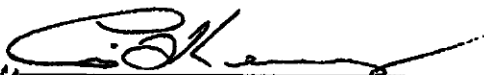
**Wilkerson Fuel Company, Inc.  
PO Box 2835  
Rock Hill, SC 29732**

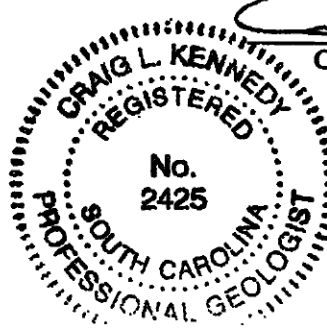
**Prepared By:**

**Environmental Compliance Services, Inc.  
13504 South Point Blvd, Unit F  
Charlotte, NC 28273  
SC Certification No. 358**

**January 5, 2011**

  
Christine E. Dupuis  
Project Manager

  
Craig L. Kennedy, P.G.  
SC License No. 2425



UST Docket 134T

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## **1.0 INTRODUCTION**

### **1.1 Background**

This report presents results of Tier II assessment activities conducted at the former 378 Truck Stop facility (UST permit number 07960) located at 731 Highway 378 in Edgefield, South Carolina (Figure 1). Activities were conducted in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive dated August 16, 2010, which included cost agreement number 39645.

The site was not in use at the time of this assessment. An abandoned building was present onsite during our visits associated with the Tier II assessment activities. A concrete slab was located directly to the east of, and abutting, the onsite building.

A release at the site was reported on October 3, 1974 and was confirmed on July 8, 1996. Reportedly, one 550-gallon diesel, one 1,000-gallon gasoline, and one 2,000-gallon gasoline underground storage tanks (USTs) and their associated piping and dispensers were removed from the site on January 1, 1987. The site did not contain USTs at the time of this assessment.

### **1.2 Regional Geology/Hydrogeology**

The sedimentary formations of the Coastal Plain range in age from Late Cretaceous to Recent. They consist, for the most part, of unconsolidated sand, clay, gravel, marl, and limestone which have been deposited on a surface of granite, schist, and gneiss similar to, and a continuation of, the rocks underlying the adjoining Piedmont province. Some coquinas have been silicified to form so-called buhrstones and some clays hardened into siltstones. Considered en masse, the formations of the Coastal Plain may be classified as having a monoclinial or acinal structure, and they rest on rocks of a much older crystalline complex. The unconsolidated rocks occur as wedges of sand, clay, marl, and limestone. Underlying the unconsolidated sediments are "crystalline" rocks consisting of granite, gneiss, schist, and a series of volcanics. Fault troughs or grabens were formed in these pre-Mesozoic rocks during Triassic time, into which were deposited ferruginous and carbonaceous sands and clays. These sediments were subsequently injected by diabase dikes and sills.

### **1.3 Receptor Survey Results**

A receptor survey was conducted within a 1,000 foot radius of the subject site during the May 2010 Tier I assessment activities. The 378 Truck Stop site was located in a predominantly residential area in

Edgefield County (Figure 1). Properties directly surrounding the site were open fields. Nearby properties were mainly open fields and residences. A volunteer fire department station was located on the corner of Highway 378 and Faulkner Mountain Road.

Municipal water was not provided to the area. Multiple private water supply wells were identified during the Tier I receptor survey and were subsequently plotted on a site vicinity map. A comprehensive survey which included the private water supply wells, conducted during Tier II assessment activities, resulted in multiple changes to the site vicinity map. The identified water supply wells are listed below along with location information.

| Description of Receptor                                | Receptor Address                             | Distance/Direction from Site         |
|--|--|--------------------------------------|
| Private Water Supply Well (labeled WSW-1)              | 730 Hwy 378 East, Edgefield, SC 29824        | Approximately 205 ft SSE of the site |
| Private Water Supply Well (labeled WSW-2)              | 736 Hwy 378 East, Edgefield, SC 29824        | Approximately 500 ft SSE of the site |
| Private Water Supply Well (labeled WSW-4)              | 752 Hwy 378 East, Edgefield, SC 29824        | Approximately 830 ft SE of the site  |
| Private Water Supply Well (labeled WSW-5)              | 745 Hwy 378, Edgefield, SC 29824             | Approximately 630 ft E of the site   |
| Private Water Supply Well (labeled WSW-6)              | 741 Hwy 378, Edgefield, SC 29824             | Approximately 348 ft E of the site   |
| Private Water Supply Well (labeled WSW-7)              | 719 Hwy 378, Edgefield, SC 29824             | Approximately 455 ft WNW of the site |
| Private Water Supply Well (labeled WSW-8)              | 724 Hwy 378 East, Edgefield, SC 29824        | Approximately 268 ft SW of the site  |
| Private Water Supply Well (labeled WSW-9)              | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 625 ft SW of the site  |
| Private Water Supply Well (labeled WSW-10)             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 470 ft SSW of the site |
| Private Water Supply Well (labeled WSW-11)             | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 545 ft SSW of the site |
| Private Water Supply Well (labeled WSW-12)             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 572 ft SSW of the site |
| Private Water Supply Well (labeled WSW-13)             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 716 ft SSW of the site |
| Private Water Supply Well (labeled WSW-14)             | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 857 ft SSW of the site |
| Private Water Supply Well (labeled WSW-15)             | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 990 ft SSW of the site |
| Disconnected Private Water Supply Well (labeled WSW-3) | 744 Hwy 378 East, Edgefield, SC 29824        | Approximately 554 ft ESE of the site |
| Disconnected private water supply well                 | unknown                                      | Approximately 615 ft NNW of the site |
| Disconnected private water supply well                 | 724 Hwy 378 East, Edgefield, SC 29824        | Approximately 444 ft SW of the site  |

|  |                                       |                                     |
|--|---------------------------------------|-------------------------------------|
| Disconnected private water supply well | 730 Hwy 378 East, Edgefield, SC 29824 | Approximately 189 ft S of the site  |
| Disconnected private water supply well | 732 Hwy 378 East, Edgefield, SC 29824 | Approximately 352 ft S of the site  |
| Disconnected private water supply well | 758 Hwy 378 East, Edgefield, SC 29824 | Approximately 678 ft SE of the site |

Underground telephone lines ran along the south side of Highway 378 and turned towards the southwest to the residences located on the south side of Highway 378, as shown in Figure 3.

The applicable portion of the Edgefield County Tax Map has been included as Figure 2. Property owner's names and addresses of land in the vicinity of the subject site are summarized in Table 1 and are keyed to Figure 2. A scaled Site Plan has been included as Figure 3. The Surveyed Map on which Figure 3 was based has been included as Appendix F.

## 2.0 ASSESSMENT INFORMATION

### 2.1 Site specific geology and hydrogeology

The project area was underlain at shallow depths by light brown silt and silty clay. Rock and partially weathered rock were encountered below the silt and clay at varying depths throughout the study area. Partially weathered rock was first encountered at depths ranging from approximately 26 feet (MW-18 and MW-27) to 50 feet (TW-9) across the subject area. Overall, partially weathered rock was first encountered at or below a depth of 30 feet below grade onsite and in locations south of the site. Partially weathered rock was first encountered at more shallow depths in locations west, southwest, and southeast of the site. Rock was first encountered at depths ranging from approximately 30 feet (MW-8) to 68 feet (TW-3) across the subject area. The depths to rock observed during shallow monitoring well installation varied from approximately 30 feet to 39 feet below grade. Overall, rock was encountered a bit deeper onsite and south of the site as compared to other areas (north, east, west, southwest, and southeast). Depths to rock were observed at shallower depths (between 32 feet and 35 feet below grade) during telescoping well installation in areas southwest and southeast of the site, as compared to telescoping wells installed onsite and in areas south of the site. The largest discrepancy was observed at telescoping well TW-3, located southwest of the site, where rock was not encountered until a depth of 68 feet below grade.

The percentages of gravel, sand, and silt/clay in a soil sample collected during Tier I well installation activities from monitoring well MW-3 at a depth of 40 feet below grade were 10.0%, 39.8%, and 50.1%, respectively. The percentages of gravel, sand, silt, and clay in a soil sample collected during Tier II well

installation activities from MW-12 at a depth of 30 feet below grade were 4.1%, 27.5%, 50.7%, and 17.7%, respectively. A soil sample was proposed for collection during installation of monitoring well TW-5 at a depth within the well's screened interval. This sample was subsequently collected at a depth of 55 feet below grade. Following discussions with SCDHEC, the sample was not submitted for laboratory grain size analysis, as this sample consisted mainly of pulverized rock particles from the well drilling process.

Depths to groundwater were measured in wells MW-1 through MW-19 and TW-1 through TW-8 on October 18, 2010. Depths to groundwater measured in the shallow monitoring wells ranged from 22.02 feet (MW-18) to 30.79 feet (MW-16). Water table elevations in the shallow monitoring wells ranged from 64.52 feet (MW-9) to 75.47 feet (MW-1) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. Additional monitoring wells were installed on November 29 through December 3, 2010 and were subsequently gauged on December 6, 2010. Depths to groundwater measured in these additional shallow monitoring wells ranged from 28.48 feet (MW-27) to 41.77 feet (MW-20). Well MW-20 was installed with a three foot stickup riser. However, when this three foot difference was considered, well MW-20 still showed the deepest water table reading of the wells gauged on December 6, 2010. Water table elevations in the additional shallow monitoring wells ranged from 66.83 feet (MW-24) to 70.75 feet (MW-23) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. The shallow groundwater elevations obtained in October 2010 were contoured to develop a groundwater flow map. Due to a significant change in water table elevations between October and December, the data obtained in December 2010 could not be integrated into this map. Based on the October 2010 shallow monitoring well data, groundwater flow in the surficial aquifer was generally toward the south, southwest, and northeast. The horizontal hydraulic gradients were approximately 0.009 feet per foot (ft/ft) towards the south from well MW-3 to well MW-16, 0.031 ft/ft towards the southwest from well MW-1 to well MW-9, and 0.014 ft/ft towards the northeast from well MW-1 to well MW-5. The Groundwater Elevation Map with posted October and December 2010 shallow monitoring well data and contoured October 2010 data has been included as **Figure 4**. A summary of groundwater elevation data has been presented in **Table 3**.

Depths to groundwater measured on October 18, 2010 in the telescoping monitoring wells ranged from 25.39 feet (TW-3) to 50.90 feet (TW-7). Water table elevations in the telescoping monitoring wells ranged from 47.23 feet (TW-7) to 73.93 feet (TW-5) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. However, based on the range of the telescoping

well groundwater elevations, it is possible that the water table was not stabilized at the time of measurement. It is also possible that the source of groundwater in some of the telescoping wells may have been from rock fractures and the measured depths to water did not represent the true water table. Subsequent gauging data may help determine the reason for this potential discrepancy. Additional monitoring wells were installed on November 29 through December 3, 2010 and were subsequently gauged on December 6, 2010. The depth to groundwater measured in additional telescoping monitoring well TW-9 was 28.96 feet and the water table elevation was 67.96 feet relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. The deep groundwater elevations obtained in October 2010 were contoured to develop a groundwater flow map. Due to a significant change in water table elevations between October and December, the data obtained in December 2010 could not be integrated into this map. Based on the October 2010 telescoping monitoring well data, groundwater flow in the deep aquifer was generally toward the southwest and east. The horizontal hydraulic gradients were approximately 0.043 ft/ft towards the southwest from well TW-1 to well TW-4 and 0.131 ft/ft towards the east from well TW-5 to well TW-7. The Groundwater Elevation Map with posted October and December 2010 telescoping monitoring well data and contoured October 2010 data has been included as **Figure 5**. A summary of groundwater elevation data has been presented in **Table 3**.

Slug tests were performed on monitoring wells MW-2 and MW-3 during Tier I assessment activities conducted in May 2010. Calculated hydraulic conductivities ranged from 0.1091 feet/day to 0.1778 feet/day. Slug tests were performed on monitoring wells MW-12 and MW-17 during Tier II assessment activities. The hydraulic conductivities estimated from the slug tests were 0.5359 feet per day (MW-12) and 0.2019 feet per day (MW-17). Raw data and graphs from the slug tests conducted during the Tier II assessment activities have been included as **Appendix G**.

## **2.2 Monitoring Well Installation**

Due to repeated drilling refusal and depth to rock encountered during Tier I assessment activities, groundwater field screening was not conducted prior to well installation during Tier II assessment activities. Therefore, monitoring well locations and termination depths were proposed at onsite and offsite positions in an effort to horizontally and vertically delineate dissolved phase contamination in the groundwater and to serve as compliance points between the site and local private water supply wells. Multiple proposed drilling locations were adjusted in the field for the presence of utilities, trees, buildings, and other obstructions. Drilling and installation of shallow monitoring wells MW-6 through

MW-19 and telescoping monitoring wells TW-1 through TW-8 occurred from October 4 through 15, 2010.

Soil samples were proposed for collection during the installation of shallow monitoring wells MW-6 through MW-8 to continue delineation of the sorbed contamination identified during Tier I assessment activities. Samples were collected every five feet during well installation activities and screened in the field for volatile organic compounds with a Photo-Ionization Detector (PID). The soil sample from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) and naphthalene using EPA Method 8260B. While installing wells MW-12 and MW-13, a petroleum odor was observed in the soil at a depth of 20 feet below grade. Grab samples were collected and screened with a PID. The results were provided to SCDHEC, who requested the samples be submitted for laboratory analysis of BTEX compounds and naphthalene using EPA Method 8260B. The soil laboratory reports are included in **Appendix C** and the data is provided in **Table 2**.

Based on observations from the Tier I well installation activities, shallow wells MW-6 through MW-19, installed during the Tier II assessment, were drilled to 35 feet or 40 feet depending on apparent topographic elevation changes throughout the area. Due to known water table fluctuations (depth to water in the pre-existing wells dropped by approximately 10 feet since the May 2010 Tier I assessment), the shallow wells were installed with 15 foot screen sections to ensure the water table would be bracketed by the screened interval in the future. Each well was monitored for depths to water prior to completion and final depths were determined by these water table measurements. The completed depths of the shallow wells ranged from 35 feet to 40 feet below grade. Telescoping monitoring wells TW-1 through TW-8 were installed and paired with shallow monitoring wells MW-1, MW-3, MW-9, MW-10, MW-12, MW-16, MW-17, and MW-19. Following discussions with SCDHEC, the proposed telescoping well's termination depth of 80 feet was adjusted based on observed depth to rock. Outer casing depths were based on depth to rock and/or the total depth of the telescoping well's shallow well pair to ensure sufficient vertical separation between the two monitoring points. As directed by SCDHEC, inner casings were installed eight feet below the well's outer casing depth. Telescoping wells TW-1 through TW-8 were installed to total depths ranging from 58 feet to 80 feet below grade, and were constructed with five foot screened sections.

Following installation, each well was developed until the purged water was free of sediment or until the well was purged dry. A comprehensive site survey was conducted on October 26, 2010 and a complete site plan was prepared.

Groundwater samples were collected from the monitoring wells and telescoping wells on October 18 and 19, 2010. Following receipt of the groundwater analytical results, SCDHEC directed the installation of additional shallow and telescoping monitoring wells. Nine shallow monitoring wells (MW-20 through MW-28) and one telescoping monitoring well (TW-9) were successfully installed on November 29 through December 3, 2010. Following well installation, each well was developed until the purged water was free of sediment or until the well was purged dry. One additional proposed shallow well could not be installed without removal of trees in a wooded area. Following a discussion with SCDHEC, it was decided that this well could be omitted from this scope of work. An additional telescoping monitoring well (TW-10) was installed to a depth of 80 feet below grade in the proposed location near shallow well MW-24. Two days following installation, this well had produced less than one foot of water. As directed by SCDHEC, groundwater samples were collected from the well and the boring was subsequently abandoned due to insufficient water for well completion.

The completed depths of shallow wells MW-20 through MW-28 ranged from 35 feet to 42 feet below grade, depending on changes in groundwater and topographic elevations. Each shallow monitoring well was installed with a 15 foot screened section. Competent rock was not encountered during installation of telescoping well TW-9. The outer casing was therefore installed to a depth of 72 feet below grade and the inner casing was installed to the proposed depth of 80 feet below grade. Telescoping well TW-9 was installed with a five foot screened section. Rock was encountered at a depth of 35 feet below grade during installation of telescoping well TW-10. Water was not encountered while drilling the inner casing to a depth of 80 feet. Due to insufficient water in the boring, this well was abandoned after a grab groundwater sample was collected.

Well logs developed during completion of the monitoring wells have been included as **Appendix A**. The driller's well construction records for the monitoring wells have been included as **Appendix B**. Soil cuttings and wastewater generated during monitoring well installation and development activities were placed in 55-gallon drums and staged onsite for subsequent transport to a licensed facility for disposal. The disposal manifests are included as **Appendix H**.

On December 9, 2010, a professional surveyor incorporated the newly installed wells into the pre-existing survey. A complete site plan was prepared and is included as **Figure 3**. The Surveyed Map on which **Figure 3** was based has been included as **Appendix F**.

### **2.3 Groundwater Sampling**

A comprehensive groundwater gauging and sampling event was conducted on October 18 and 19, 2010. Samples were collected from monitoring wells MW-2 through MW-19 and TW-1 through TW-8. Samples were also collected from water supply wells WSW-1 through WSW-15. A groundwater sample was not collected from pre-existing monitoring well MW-1 due to the presence of free product.

Additional monitoring wells MW-20 through MW-28 and TW-9 were gauged and sampled on December 6, 2010. A grab sample was also collected from telescoping well TW-10 on December 2, 2010 before it was abandoned.

Each monitoring well was sampled using a new, disposable 1 ½-inch diameter 1-liter capacity PVC bailer attached to a nylon cord. Prior to sample collection, new wells MW-6 through MW-28 and TW-1 through TW-9 were developed and purged by removal of at least three well casing volumes of water, wherever possible. Pre-existing monitoring well MW-2 was also purged prior to sample collection, as the construction of this well was unknown and it could not be verified whether the water table was bracketed by the screened interval. Pre-existing monitoring wells MW-3 through MW-5 were not purged prior to sampling, as the water table in these wells was bracketed by the screened interval of each well. Each water supply well was purged at the sample location for approximately 10 minutes prior to sample collection. Measurements of pH, conductivity, temperature, oxidation reduction potential, turbidity, and dissolved oxygen were recorded prior to purging and after removal of each well casing volume. Field information was transcribed onto SCDHEC Field Sampling Summary Sheets which are included as **Appendix D**.

After collection, the groundwater samples were placed into an iced cooler and delivered to Pace Analytical of Huntersville, NC. Pace analyzed the groundwater samples from wells MW-2 through MW-28 and TW-1 through TW-9 for BTEX compounds, MTBE, naphthalene, 1,2-DCA, and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. The groundwater samples collected from newly installed monitoring wells MW-6 through MW-28 and TW-1 through TW-9 were also analyzed for total lead using EPA Method 6010. The grab sample collected from TW-10 was analyzed for BTEX



compounds, MTBE, naphthalene, 1,2-DCA, and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. There was insufficient water to collect a lead sample from TW-10. Pace analyzed the groundwater samples from water supply wells WSW-1 through WSW-15 for BTEX compounds, MTBE, naphthalene, and 1,2-DCA using EPA Method 8260B and EDB using EPA Method 8011. The laboratory analytical reports have been included in **Appendix E**. Tabular results have been included in **Table 4** and **Table 5**. A map displaying contaminants of concern data has been included as **Figure 6**. A map displaying eight oxygenates data has been included as **Figure 7**.

Purge water generated during groundwater sampling activities was placed in 55-gallon drums and staged onsite for subsequent transport to a licensed facility for disposal. The disposal manifests are included as **Appendix H**.

The October 19, 2010 private water supply well analytical data was forwarded to SCDHEC upon receipt on October 26, 2010. Concentrations of contaminants of concern were reported above laboratory reporting limits in several of the water supply well samples. The water supply wells with concentrations above laboratory reporting limits were re-sampled by SCDHEC to verify the results obtained by ECS. Based on the results, SCDHEC directed ECS to install Granular Activated Carbon (GAC) units on water supply wells WSW-1 and WSW-8. GAC units were installed on water supply wells WSW-1 and WSW-8 on November 18, 2010 and November 12, 2010, respectively. Following installation, pre-GAC and post-GAC groundwater samples were collected. Additional information pertaining to the GAC installations and subsequent sampling can be found in the individual reports associated with these field activities, each dated November 23, 2010.

As directed by SCDHEC, ECS collected groundwater samples from water supply wells WSW-2 through WSW-4, WSW-6, WSW-7, WSW-9 through WSW-12, and WSW-15 for analysis of eight oxygenates using EPA Method 8260B on December 8, 2010 to complete the well's data sets. Samples were not collected from water supply wells WSW-1 and WSW-8, as eight oxygenates data had been obtained during the GAC installation sampling. Samples were not collected from water supply wells WSW-13 and WSW-14, as eight oxygenates data had been obtained from these wells during the verification sampling conducted by SCDHEC. A groundwater sample could not be collected from water supply well WSW-5 for analysis of eight oxygenates on December 8, 2010, as the well pump had been disconnected but not removed from the well. A sign in front of the residence indicated that the home was for sale. Due to unseasonably cold temperatures, multiple sample locations were frozen on the day of sampling. A sample

was collected from water supply well WSW-2 after plumbers cut open frozen pipes for repairs. Sufficient water was obtained from the broken pipes for sample collection. A sample was collected from indoor plumbing from water supply well WSW-9 due to frozen outdoor piping. Samples were collected from wells WSW-11, WSW-12, and WSW-15 at spigots attached to the respective homes, as the sample ports on the holding tanks were frozen. The laboratory analytical report from the eight oxygenates sampling has been included in **Appendix E**. Tabular results have been included in **Table 5**. A map displaying eight oxygenates data has been included as **Figure 7**.

## **2.4 Groundwater Quality**

### Contaminants of Concern

Concentrations of benzene were reported above the SCDHEC May 2001 Risk Based Screening Level (RBSL) in the groundwater samples collected from monitoring wells MW-3 through MW-5, MW-7, MW-12, MW-13, MW-16, and MW-22. Concentrations of toluene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-12 and MW-22. Concentrations of ethylbenzene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3 and MW-22. A concentration of total xylenes was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of naphthalene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-5, MW-12, and MW-22. Concentrations of 1,2 DCA were reported above the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-12, MW-13, MW-22, MW-24, MW-27, TW-1, and TW-6, and water supply well WSW-8 (pre-GAC installation). Concentrations of EDB were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-12, and MW-22. A concentration of total lead was reported above the RBSL in the groundwater sample collected from monitoring well MW-22.

Concentrations of benzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-2 and TW-6. Concentrations of toluene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-13, MW-16, TW-2, and TW-7. Concentrations of ethylbenzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-5, MW-7, MW-12 through MW-14, and MW-16. Concentrations of total xylenes were reported below the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-7, MW-12 through MW-14, MW-16, TW-2, and TW-7. Concentrations of MTBE were reported below the RBSL in the groundwater samples collected from monitoring wells MW-3

through MW-6, TW-1, and TW-4, and water supply wells WSW-8 (pre-GAC installation), WSW-13, and WSW-14. Concentrations of naphthalene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4 and MW-13, and abandoned telescoping monitoring well TW-10. Concentrations of 1,2 DCA were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-6, MW-7, MW-11, MW-15, MW-16, TW-2, and TW-5, and water supply well WSW-1 (pre-GAC installation). A concentration of EDB was reported below the RBSL in the groundwater sample collected from monitoring well MW-13. A concentration of total lead was reported below the RBSL in the groundwater sample collected from monitoring well MW-17.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-8 through MW-10, MW-18 through MW-21, MW-23, MW-25, MW-26, MW-28, TW-3, TW-8, and TW-9, and water supply wells WSW-2 through WSW-7, WSW-9 through WSW-12, and WSW-15.

#### Eight Oxygenates

Concentrations of TAA were reported above the SCDHEC 2008 Action Level in the groundwater samples collected from monitoring wells MW-3, MW-12, MW-13, MW-16, MW-22, and TW-1, and water supply well WSW-8 (pre-GAC installation).

A concentration of DIPE was reported below the Action Level in the groundwater sample collected from monitoring well MW-3. Concentrations of TBA were reported below the Action Level in the groundwater samples collected from monitoring wells MW-2, MW-3, and MW-12. Concentrations of TAA were reported below the Action Level in the groundwater samples collected from monitoring wells MW-4 through MW-6, and TW-2.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-7 through MW-11, MW-14, MW-15, MW-17 through MW-21, MW-23 through MW-28, and TW-3 through TW-9, abandoned telescoping monitoring well TW-10, and water supply wells WSW-1 through WSW-4, WSW-6, WSW-7, WSW-9 through WSW-12, and WSW-15.

A summary of the Chemicals of Concern (CoC) data has been included as Table 4. A summary of the oxygenate data has been included as Table 5. A groundwater quality map showing the contaminants of

concern based on the October through December 2010 data has been included as **Figure 6**. A groundwater quality map showing the eight oxygenates based on the October through December 2010 data has been included as **Figure 7**. Groundwater sampling field data sheets from the October and December 2010 sampling events have been included as **Appendix D**. Complete reports of laboratory analyses of groundwater samples collected during the October and December 2010 sampling events, along with chain-of-custody documentation, have been included in **Appendix E**. The disposal manifests are included as **Appendix H**.

### **3.0 CONCLUSIONS AND RECOMMENDATIONS**

Based on the findings of the Tier II assessment at the 378 Truck Stop site, the following conclusions and recommendations are presented:

- Multiple private water supply wells were identified within 1,000 feet of the site and a few were found to be impacted. Due to the potential for concentration fluctuations over time, and because municipal water is not currently available in the area, groundwater from the water supply wells should be closely monitored to protect human health.
- The monitoring wells installed during this Tier II assessment appear to have delineated the dissolved phase contamination. Contaminants of concern seem to be moving primarily towards the south, which is in agreement with the estimated shallow groundwater flow direction. However, some water may be moving with rock fractures. Fracture analysis may be warranted in the future to better understand groundwater flow in the area, particularly in the deeper wells.
- Additional assessment may be required at the residence located across the street from the subject site (730 Highway 378). Dissolved concentrations reported in the groundwater samples collected from shallow monitoring well MW-22 were the highest of any well associated with the monitoring network.
- Remedial efforts in the form of Aggressive Fluid/Vapor Recovery (AFVR) events are recommended to reduce dissolved concentrations in groundwater while a more comprehensive remedial strategy is developed for the site that is protective of human health.

### **4.0 LIMITATIONS**

This report has been prepared for the exclusive use of Wilkerson Fuel Company, Inc. for specific application to the referenced site in Edgefield, South Carolina. The assessment was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology

and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

## **TABLES**

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**TABLE 1  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES<sup>1</sup>  
378 TRUCK STOP**

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-6, MW-21, TW-1, TW-2                         | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | WSW-6 & Disconnected WSW       | MW-7, MW-8, MW-20, MW-27, MW-28                              | Wooded Area around site; WSW-6 tag info: Date: 9/14/00, Depth: 400 ft.                                |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | no WSWs identified             | -  | -   |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | 21st Mortgage Corporation                    | 620 Market Street #100, Knoxville TN 37902   | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft; well was disconnected from power during 12/8/10 visit   |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | -  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-18  | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7         | WSW-1 tag info: Date: 12/91, Depth: 280 ft  |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-19 and TW-8   | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16, MW-25, TW-6   | -   |
| 109-00-01-004-000     | JG and JP Owdom                              | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | MW-26 and TW-9   | -   |
| 109-00-01-006-000     | Ulysses Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | no WSWs identified             | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12 and WSW-13              | -  | -   |
| 109-00-01-010-000     | Luther Mitchell Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10, MW-24, TW-4, abandoned TW-10                          | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 724 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

Notes:

1. Adjacent/adjoining properties are keyed into Figure 2.

**TABLE 2**  
**SUMMARY OF SOIL ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Sample ID          | Date    | Depth (feet) | PID Reading (ppm) | Benzene (mg/kg)      | Toluene (mg/kg)       | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Naphthalene (mg/kg) |
|--------------------|---------|--------------|-------------------|----------------------|-----------------------|----------------------|-----------------|---------------------|
| MW-6 <sup>1</sup>  | 10/5/10 | 5            | 1.5               | <0.0055 <sup>2</sup> | <0.0055               | <0.0055              | <0.0166         | <0.0055             |
| MW-7 <sup>1</sup>  | 10/4/10 | 10           | 387               | <0.0447              | 0.0346 J <sup>3</sup> | 0.0314 J             | 0.1867          | 0.0258 J            |
| MW-8 <sup>1</sup>  | 10/6/10 | 20           | 0.3               | <0.0055              | <0.0055               | <0.0055              | <0.0165         | <0.0055             |
| MW-12 <sup>4</sup> | 10/7/10 | 20           | 156               | <0.0053              | <0.0053               | <0.0053              | <0.0159         | 0.0016 J            |
| MW-13 <sup>4</sup> | 10/5/10 | 20           | 92.3              | <0.0047              | <0.0047               | <0.0047              | <0.0141         | <0.0047             |
|                    |         |              | RBSL <sup>5</sup> | 0.0007               | 1.450                 | 1.150                | 14.500          | 0.036               |

Notes:

1. Soil samples collected every 5 vertical ft during installation of shallow groundwater monitoring wells. Sample depth from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis.
2. Less than the laboratory reporting limit.
3. Estimated value between the method detection limit and laboratory reporting limit.
4. Soil samples collected during installation of shallow groundwater monitoring wells due to observed odor and subsequent PID readings.
5. May 2001 SCDHEC Risk Based Screening Level for sandy soils.



**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID            | Date Measured         | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|--------------------|-----------------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-1               | 5/25/10 <sup>3</sup>  | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|                    | 10/18/10 <sup>4</sup> | 101.98                       | 26.50                      | 26.54                      | 0.04                        | 75.47                                    |                 |                        |
| MW-2               | 5/25/10               | 101.02                       | --                         | 16.82                      | --                          | 84.20                                    | 41.72           | unknown                |
|                    | 10/18/10              | 100.99                       | --                         | 27.10                      | --                          | 73.89                                    |                 |                        |
| MW-3               | 5/25/10               | 101.46                       | --                         | 17.28                      | --                          | 84.18                                    | 40              | 10-40                  |
|                    | 10/18/10              | 101.54                       | --                         | 27.58                      | --                          | 73.96                                    |                 |                        |
| MW-4               | 5/25/10               | 100.50                       | --                         | 16.35                      | --                          | 84.15                                    | 40              | 10-40                  |
|                    | 10/18/10              | 100.48                       | --                         | 26.20                      | --                          | 74.28                                    |                 |                        |
| MW-5               | 5/25/10               | 104.21                       | --                         | 27.30                      | --                          | 76.91                                    | 40              | 20-40                  |
|                    | 10/18/10              | 104.18                       | --                         | 30.24                      | --                          | 73.94                                    |                 |                        |
| MW-6               | 10/18/10              | 102.25                       | --                         | 28.01                      | --                          | 74.24                                    | 35.05           | 20.05-35.05            |
| MW-7               | 10/18/10              | 99.72                        | --                         | 25.10                      | --                          | 74.62                                    | 34.92           | 19.92-34.92            |
| MW-8               | 10/18/10              | 99.92                        | --                         | 25.45                      | --                          | 74.47                                    | 35.08           | 20.08-35.08            |
| MW-9               | 10/18/10              | 94.83                        | --                         | 30.31                      | --                          | 64.52                                    | 35.17           | 20.17-35.17            |
| MW-10              | 10/18/10              | 99.12                        | --                         | 29.73                      | --                          | 69.39                                    | 40.16           | 25.16-40.16            |
| MW-11              | 10/18/10              | 102.61                       | --                         | 28.75                      | --                          | 73.86                                    | 35.23           | 20.23-35.23            |
| MW-12              | 10/18/10              | 103.46                       | --                         | 29.63                      | --                          | 73.83                                    | 34.99           | 19.99-34.99            |
| MW-13              | 10/18/10              | 101.48                       | --                         | 27.63                      | --                          | 73.85                                    | 40.19           | 25.19-40.19            |
| MW-14              | 10/18/10              | 103.48                       | --                         | 29.99                      | --                          | 73.49                                    | 39.74           | 24.74-39.74            |
| MW-15              | 10/18/10              | 103.16                       | --                         | 30.32                      | --                          | 72.84                                    | 40.13           | 25.13-40.13            |
| MW-16              | 10/18/10              | 101.32                       | --                         | 30.79                      | --                          | 70.53                                    | 40.11           | 25.11-40.11            |
| MW-17              | 10/18/10              | 98.40                        | --                         | 23.74                      | --                          | 74.66                                    | 35.02           | 20.02-35.02            |
| MW-18              | 10/18/10              | 95.05                        | --                         | 22.02                      | --                          | 73.03                                    | 35.67           | 20.67-35.67            |
| MW-19              | 10/18/10              | 101.07                       | --                         | 27.62                      | --                          | 73.45                                    | 38.57           | 23.57-38.57            |
| MW-20 <sup>5</sup> | 12/6/10               | 110.52                       | --                         | 41.77                      | --                          | 68.75                                    | 45.05           | 30.05-45.05            |
| MW-21              | 12/6/10               | 101.70                       | --                         | 32.66                      | --                          | 69.04                                    | 40.16           | 25.16-40.16            |
| MW-22              | 12/6/10               | 105.13                       | --                         | 34.95                      | --                          | 70.18                                    | 40.09           | 25.09-40.09            |
| MW-23              | 12/6/10               | 100.01                       | --                         | 29.26                      | --                          | 70.75                                    | 37.24           | 22.24-37.24            |
| MW-24              | 12/6/10               | 99.08                        | --                         | 32.25                      | --                          | 66.83                                    | 40.13           | 25.13-40.13            |
| MW-25              | 12/6/10               | 101.54                       | --                         | 32.00                      | --                          | 69.54                                    | 39.98           | 24.98-39.98            |
| MW-26              | 12/6/10               | 97.25                        | --                         | 29.08                      | --                          | 68.17                                    | 38.74           | 23.74-38.74            |
| MW-27              | 12/6/10               | 97.20                        | --                         | 28.48                      | --                          | 68.72                                    | 35.10           | 20.10-35.10            |
| MW-28              | 12/6/10               | 101.29                       | --                         | 33.39                      | --                          | 67.90                                    | 40.03           | 25.03-40.03            |
| TW-1               | 10/18/10              | 101.83                       | --                         | 28.44                      | --                          | 73.39                                    | 63.27           | 58.27-63.27            |
| TW-2               | 10/18/10              | 101.97                       | --                         | 29.57                      | --                          | 72.40                                    | 80.23           | 75.23-80.23            |
| TW-3               | 10/18/10              | 95.33                        | --                         | 25.39                      | --                          | 69.94                                    | 80.62           | 75.62-80.62            |
| TW-4               | 10/18/10              | 99.23                        | --                         | 43.13                      | --                          | 56.10                                    | 68.56           | 63.56-68.56            |
| TW-5               | 10/18/10              | 103.62                       | --                         | 29.69                      | --                          | 73.93                                    | 58.38           | 53.38-58.38            |
| TW-6               | 10/18/10              | 101.29                       | --                         | 31.22                      | --                          | 70.07                                    | 58.55           | 53.55-58.55            |
| TW-7               | 10/18/10              | 98.13                        | --                         | 50.90                      | --                          | 47.23                                    | 58.94           | 53.94-58.94            |

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| <b>Well ID</b> | <b>Date Measured</b> | <b>Top of Casing Elevation (ft)</b> | <b>Depth to Free Product (ft)</b> | <b>Depth to Ground-water (ft)</b> | <b>Free Product Thickness (ft)</b> | <b>Ground-water Elevation<sup>2</sup> (ft)</b> | <b>Well Depth (ft)</b> | <b>Screened Interval (ft)</b> |
|----------------|----------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|--|------------------------|-------------------------------|
| TW-8           | 10/18/10             | 101.03                              | --                                | 28.18                             | --                                 | 72.85  | 58.53                  | 53.53-58.53                   |
| TW-9           | 12/6/10              | 96.92                               | --                                | 28.96                             | --                                 | 67.96  | 80.12                  | 75.12-80.12                   |

**Notes:**

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.

**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|--------------------|-------------------|---------------------|----------------------|-------------|--------------------|-----------------|------------|-------------------|
| MW-1    | 5/25/10     | Free Product       |                   |                     |                      |             |                    |                 |            |                   |
|         | 10/18/10    | Free Product       |                   |                     |                      |             |                    |                 |            |                   |
| MW-2    | 5/25/10     | 109 <sup>2</sup>   | <5.0 <sup>3</sup> | 114                 | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035      | NR                |
|         | 10/19/10    | 1.7 J <sup>5</sup> | <5.0              | <5.0                | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020     | NR                |
| MW-3    | 5/25/10     | 239                | 139               | 815                 | 4,800                | <5.0        | 285                | 126             | 0.099      | 28.9              |
|         | 10/18/10    | 6,820              | 343               | 981                 | 6,260                | 3.4 J       | 449                | 561             | 0.31       | NR                |
| MW-4    | 5/25/10     | 2.9 J              | <5.0              | 1.4 J               | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020     | 62.8              |
|         | 10/18/10    | 5.7                | <5.0              | <5.0                | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020     | NR                |
| MW-5    | 5/25/10     | 3.6 J              | 1.8 J             | 4.0 J               | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020     | 11.8              |
|         | 10/18/10    | 102                | <5.0              | 4.1 J               | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020     | NR                |
| MW-6    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020     | <5.0              |
| MW-7    | 10/19/10    | 12.9               | 4.6 J             | 3.2 J               | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40       | <5.0              |
| MW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-9    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-10   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| MW-11   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 1.3 J           | <0.020     | <5.0              |
| MW-12   | 10/19/10    | 387                | 1,210             | 120                 | 2,650                | <5.0        | 187                | 24.7            | 4.8        | <5.0              |
| MW-13   | 10/19/10    | 333                | 109               | 58.3                | 282                  | <10.0       | 10.1               | 61.9            | 0.022      | <5.0              |
| MW-14   | 10/19/10    | <5.0               | <5.0              | 2.5 J               | 9.5 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-15   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 3.0 J           | <0.020     | <5.0              |
| MW-16   | 10/19/10    | 246                | 26.1              | 14.3                | 229.2                | <5.0        | <5.0               | 2.5 J           | <0.020     | <5.0              |
| MW-17   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | 4.3 J             |
| MW-18   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| MW-19   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-20   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-21   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-22   | 12/6/10     | 11,900             | 29,500            | 1,800               | 11,400               | <100        | 522                | 463             | 122        | 15.3              |
| MW-23   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-24   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 6.7             | <0.020     | <5.0              |
| MW-25   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-26   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-27   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 6.4             | <0.020     | <5.0              |
| MW-28   | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-1    | 10/18/10    | <5.0               | <5.0              | <5.0                | <15.0                | 5.7         | <5.0               | 64.2            | <0.020     | <5.0              |
| TW-2    | 10/19/10    | <5.0               | 3.4 J             | <5.0                | 2.8 J                | <5.0        | <5.0               | 4.2 J           | <0.020     | <5.0              |
| TW-3    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-4    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | 2.9 J       | <5.0               | <5.0            | <0.019     | <5.0              |
| TW-5    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 1.7 J           | <0.020     | <5.0              |
| TW-6    | 10/19/10    | 1.5 J              | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 5.1             | <0.020     | <5.0              |
| TW-7    | 10/19/10    | <5.0               | 1.9 J             | <5.0                | 5.6 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| TW-9    | 12/6/10     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |

**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID                    | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|----------------------------|-------------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-10 <sup>6</sup>         | 12/2/10           | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | 2.9 J              | <5.0           | <0.020     | NR                |
| WSW-1                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     | NR                |
| WSW-1 pre GAC <sup>7</sup> | 11/18/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019     | NR                |
| WSW-1 post GAC             | 11/18/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-2                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-3                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-4                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-5                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-6                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-7                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-8                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 3.6 J       | <5.0               | <b>9.2</b>     | <0.020     | NR                |
| WSW-8 pre GAC <sup>8</sup> | 11/12/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>7.5</b>     | <0.020     | NR                |
| WSW-8 post GAC             | 11/12/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-9                      | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-10                     | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-11                     | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-12                     | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-13                     | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     | NR                |
| WSW-14                     | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     | NR                |
| WSW-15                     | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                            | RBSL <sup>9</sup> | 5              | 1,000          | 700                 | 10,000               | 40          | 25                 | 5              | 0.05       | 15                |

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
7. WSW-1 GAC installed on 11/18/10.
8. WSW-8 GAC installed on 11/12/10.
9. May 2001 Risk-Based Screening Level.

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID            | Date Sampled | Ethanol (ug/L)    | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|--------------------|--------------|-------------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-1               | 10/18/10     | Free Product      |                                      |                                  |                                |                                     |                                      |                                |                                 |
| MW-2               | 10/19/10     | <200 <sup>2</sup> | <10.0                                | <5.0                             | <100                           | 254                                 | <10.0                                | <100                           | <50.0                           |
| MW-3               | 10/18/10     | <200              | <10.0                                | 55.7                             | <100                           | 773                                 | <10.0                                | 12,900 <sup>3</sup>            | <50.0                           |
| MW-4               | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 199                            | <50.0                           |
| MW-5               | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 168                            | <50.0                           |
| MW-6               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 131                            | <50.0                           |
| MW-7               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-8               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-9               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-10              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-11              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-12              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | 83.0 J <sup>4</sup>                 | <10.0                                | 267                            | <50.0                           |
| MW-13              | 10/19/10     | <400              | <20.0                                | <10.0                            | <200                           | <200                                | <20.0                                | 1,260                          | <100                            |
| MW-14              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-15              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-16              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 360                            | <50.0                           |
| MW-17              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-18              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-19              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-20              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-21              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-22              | 12/6/10      | <4,000            | <200                                 | <100                             | <2,000                         | <2,000                              | <200                                 | 9,730                          | <1,000                          |
| MW-23              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-24              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-25              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-26              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-27              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-28              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-1               | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 1,180                          | <50.0                           |
| TW-2               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 95.4 J                         | <50.0                           |
| TW-3               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-4               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-5               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-6               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-7               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-8               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-9               | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-10 <sup>5</sup> | 12/2/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                    | Date Sampled               | Ethanol (ug/L)   | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------|----------------------------|--|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| WSW-1 pre GAC <sup>6</sup> | 11/18/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-1 post GAC             | 11/18/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-2                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-3                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-4                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-5                      | 12/8/10                    | Not sampled for oxygenates. Well pump electric disconnected. |                                      |                                  |                                |                                     |                                      |                                |                                 |
| WSW-6                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-7                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-8 pre GAC <sup>7</sup> | 11/12/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>262</b>                     | <50.0                           |
| WSW-8 post GAC             | 11/12/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-9                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-10                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-11                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-12                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-13                     | 12/8/10                    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.    |                                      |                                  |                                |                                     |                                      |                                |                                 |
| WSW-14                     | 12/8/10                    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.    |                                      |                                  |                                |                                     |                                      |                                |                                 |
| WSW-15                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                            | Action Levels <sup>8</sup> | 10,000   | 47                                   | 150                              | NA                             | 1,400                               | 128                                  | 240                            | NA                              |

Notes:

1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.

hydrogen sulfide

age of water heater.

flush out H<sub>2</sub>O heater.

- ASK community about  
when next meeting should  
be.

---

more wells, soil assess.

more Searry's well.

old well on map.

modify QAPP

line # drill Searry's

Geophysical survey from

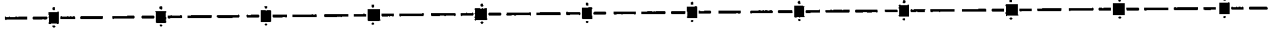
top of rock.



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D  
H  
E  
C



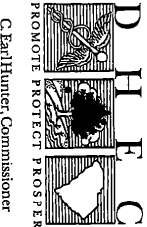


# Community Meeting

## Former 378 Truck Stop Groundwater Investigation

December 13, 2010

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



Clara Hunter, Commissioner

# Purpose of Meeting

◆ To inform you of activities being conducted in this area to assess a gasoline release from the former truck stop.

◆ Activities include:

- ◆ The sampling of all drinking water wells in the area for petroleum or gasoline chemicals.
- ◆ The installation and sampling of monitoring wells to determine the extent of these chemicals in the groundwater.

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

Clare Hunter, Commissioner



# What is gasoline?

- 
- ✦ **Gasoline contains over 150 chemicals.**
  - ✦ **Gasoline floats on water as a free product and some of it dissolves and moves with the groundwater.**
  - ✦ **Chemicals found in gasoline include Benzene, Toluene, Ethylbenzene, Xylenes, and Naphthalene.**
  - ✦ **Other chemicals added to gasoline include oxygenates (unleaded gas) and lead scavengers (leaded gas; not in use anymore).**

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



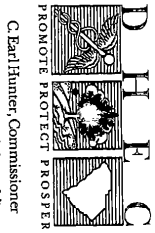
C. Earl Hunter, Commissioner



# Sampling of Drinking Wells

- Gasoline chemicals were first reported in the groundwater in the 1970s.
- DHEC funded the installation of new drinking wells for the owners whose wells contained gasoline, and monitored these wells to ensure clean drinking water.
- 15 drinking water wells were sampled in May 2010. No gasoline chemicals were detected in these wells.
- In October 2010, gasoline chemicals were reported in drinking water wells.

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



C. Earl Hunter, Commissioner

# Drinking Water Wells



# GAC Unit



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

Earth Health International



# Investigation Activities

---

- ✦ **The installation of monitoring wells has to be conducted in separate events due to the geology underlying the site.**
- ✦ **A total of 35 monitoring wells (26 shallow; 9 deep) have been installed and sampled at the site so far.**
- ✦ **Additional monitoring wells may need to be installed depending on the lab data we receive from the 9 most recently installed monitoring wells.**

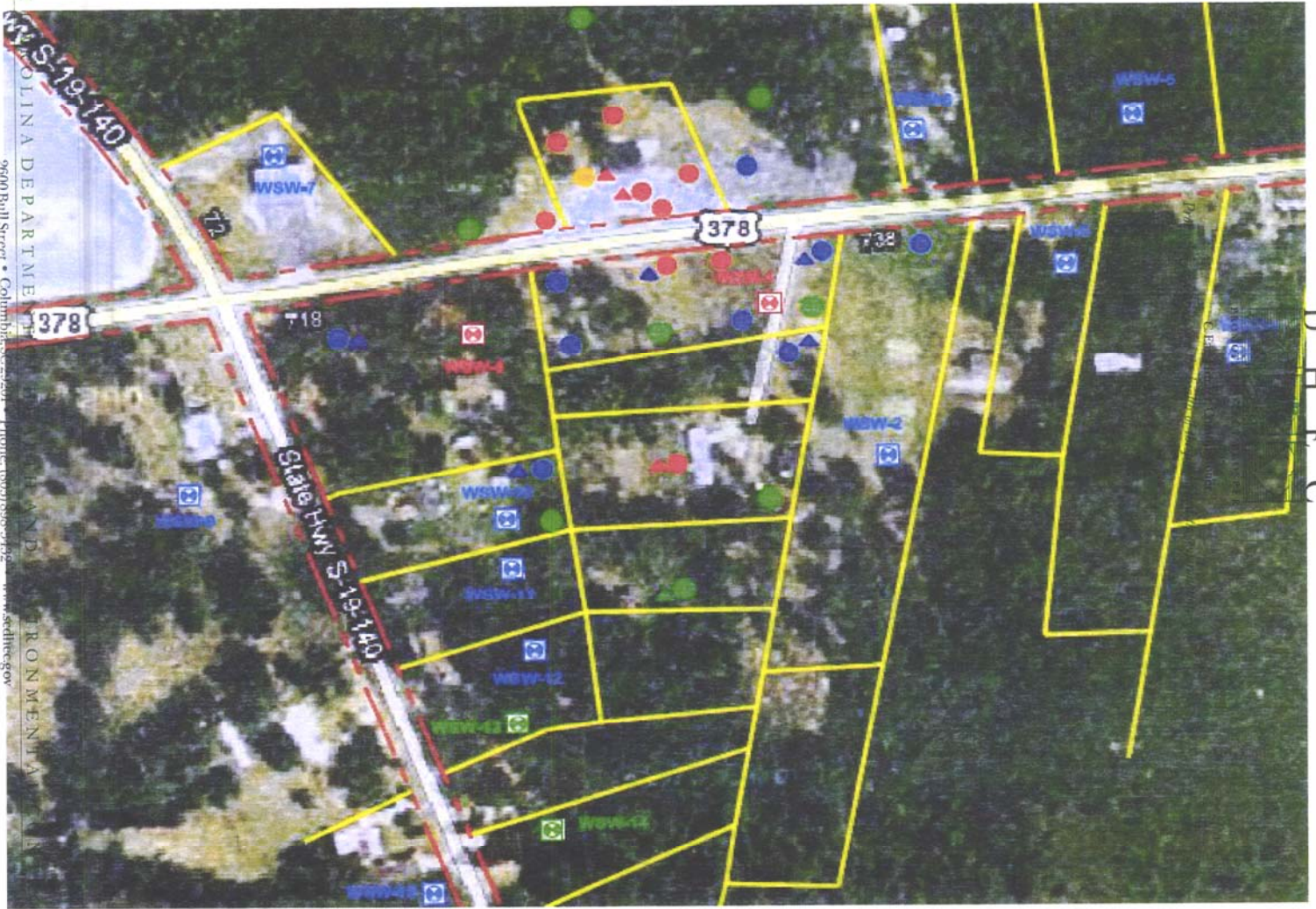
*Promoting and protecting the health of the public and the environment.*

C. Earl Hunter, Commissioner



2009 DPH Street, Cambridge, MA 02142 Phone: (603) 856-3432 www.dph.state.nh.gov

# Monitoring Wells





# Future Activities

- ✦ Continue to sample all drinking wells.
- ✦ Sample monitoring wells and install more if necessary.
- ✦ Provide you copies of all reports of findings.
- ✦ Maintain GAC units and install additional ones if necessary.
- ✦ Listen to community concerns and respond to complaints about water taste or odor.
- ✦ Explore cleanup options.

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

C. Earl Hunter, Commissioner



SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENT  
2000 Bull Street • Columbia, SC 29201 • Phone: (803) 856-7432 • www.scdhec.gov

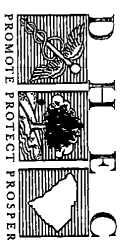
# DHEC Local Contacts

## EQC Region 1 – Greenwood

**Christopher McCluskey 864-223-0333**

**Donna Rowe 864-223-0333**

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



Clay Hunter, Commissioner

S  
STEPH CARROLL  
DORRILL  
GENERAL LAND AND ENVIRONMENTAL CONTROL  
2000 BULL STREET - COLUMBIA, SC 29201 - PHONE: (803) 930-9122 - WWW.SOUTHSC.GOV

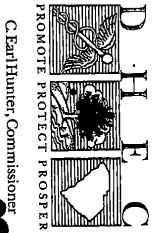
# DHEC Columbia Office

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## Bureau of Land & Waste Management

|                         |                     |
|-------------------------|---------------------|
| <b>Cathleen Ridgley</b> | <b>803-896-6633</b> |
| <b>Chris Doll</b>       | <b>803-896-6585</b> |
| <b>Donna Moye</b>       | <b>803-896-4281</b> |

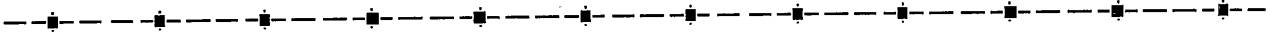
*Promoting and protecting the health of the public and the environment*





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

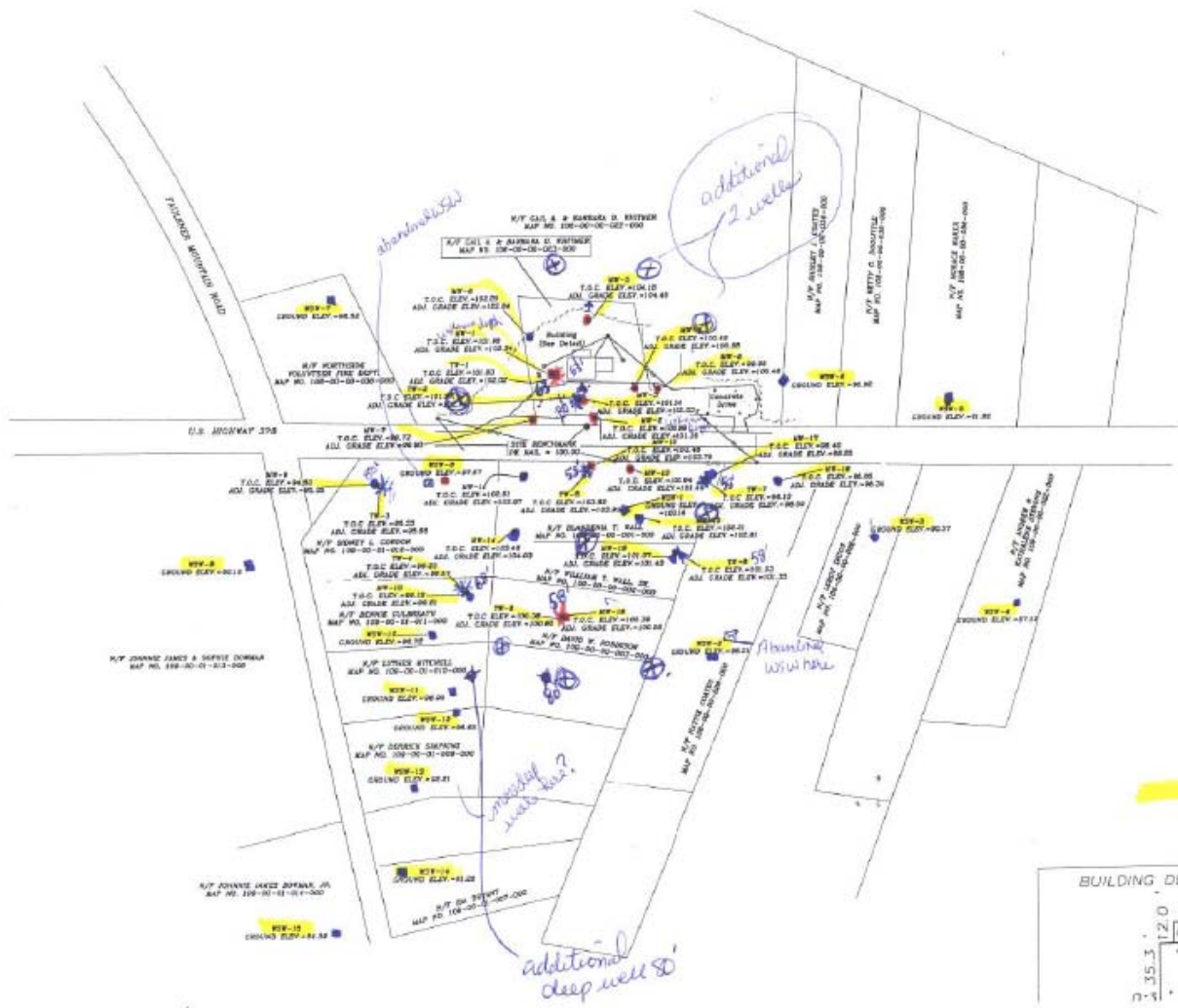
# Questions or Comments?



| MONITORING WELL DATA (UG/L) |                          |         |              |         |             |      |         |       |        |     |      |  |
|-----------------------------|--------------------------|---------|--------------|---------|-------------|------|---------|-------|--------|-----|------|--|
| Well depth                  | Benzene                  | Toluene | Ethylbenzene | Xylenes | Naphthalene | MtBE | 1,2-DCA | EDB   | TAA    | TBA | DIPE |  |
| MW-1                        | Free Product (0.04 feet) |         |              |         |             |      |         |       |        |     |      |  |
| MW-2                        | 1.7                      | ND      | ND           | 2.9     | ND          | 24.8 | 0.02    | ND    | 254    | ND  |      |  |
| MW-3                        | 6820                     | 343     | 981          | 4530    | 449         | 3.4  | 561     | 0.31  | 12,900 | 773 | 55.7 |  |
| MW-4                        | 5.7                      | ND      | ND           | ND      | 3.7         | 3    | 4.8     | ND    | 189    | ND  | ND   |  |
| MW-5                        | 102                      | ND      | 4.1          | 115     | 43.5        | 3.2  | 6.6     | ND    | 188    | ND  | ND   |  |
| MW-6                        | ND                       | ND      | ND           | ND      | ND          | 3    | 3.5     | ND    | 131    | ND  | ND   |  |
| MW-7                        | 12.9                     | 4.6     | 3.2          | 9.2     | ND          | ND   | 4.6     | 0.4   | ND     | ND  | ND   |  |
| MW-8                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| MW-9                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| MW-10                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| MW-11                       | ND                       | ND      | ND           | ND      | ND          | ND   | 1.2     | ND    | ND     | ND  | ND   |  |
| MW-12                       | 387                      | 1210    | 120          | 1330    | 187         | ND   | 24.7    | 4.8   | 287    | 83  | ND   |  |
| MW-13                       | 333                      | 109     | 58.3         | 180     | 10.1        | ND   | 61.9    | 0.022 | 1260   | ND  | ND   |  |
| MW-14                       | ND                       | ND      | 2.5          | 5.6     | ND          | ND   | 3       | ND    | ND     | ND  | ND   |  |
| MW-15                       | 246                      | 26.1    | 14.3         | 152     | ND          | ND   | 2.5     | ND    | 360    | ND  | ND   |  |
| MW-16                       | ND                       | ND      | ND           | ND      | ND          | ND   | 3       | ND    | ND     | ND  | ND   |  |
| MW-17                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| MW-18                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| MW-19                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| MW-20                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| MW-21                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| MW-22                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| MW-23                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| MW-24                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| MW-25                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| MW-26                       | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| TW-1                        | ND                       | ND      | ND           | ND      | ND          | 5.7  | 64.2    | ND    | 1180   | ND  | ND   |  |
| TW-2                        | ND                       | 3.4     | ND           | 2.8     | ND          | ND   | 4.2     | ND    | 95.4   | ND  | ND   |  |
| TW-3                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| TW-4                        | ND                       | ND      | ND           | ND      | ND          | 2.9  | ND      | ND    | ND     | ND  | ND   |  |
| TW-5                        | ND                       | ND      | ND           | ND      | ND          | ND   | 1.2     | ND    | ND     | ND  | ND   |  |
| TW-6                        | 1.5                      | ND      | ND           | ND      | ND          | ND   | 5.1     | ND    | ND     | ND  | ND   |  |
| TW-7                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| TW-8                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | ND     | ND  | ND   |  |
| TW-9                        | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| WSW1                        | *                        | *       | *            | *       | *           | *    | *       | *     | *      | *   | *    |  |
| WSW2                        | ND                       | ND      | ND           | ND      | ND          | ND   | 2.1     | ND    | ND     | 7.5 | ND   |  |
| WSW3                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW4                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW5                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW6                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW7                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW8                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW9                        | ND                       | ND      | ND           | ND      | ND          | 3.8  | ND      | 9.2   | 130    | ND  | 0.23 |  |
| WSW10                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW11                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW12                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW13                       | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
| WSW14                       | ND                       | ND      | ND           | ND      | ND          | 3.2  | ND      | ND    | ND     | ND  | ND   |  |
| WSW15                       | ND                       | ND      | ND           | ND      | ND          | 4    | ND      | ND    | ND     | ND  | ND   |  |
| RBSL                        | ND                       | ND      | ND           | ND      | ND          | ND   | ND      | ND    | *      | *   | *    |  |
|                             | 5                        | 700     | 10000        | 16000   | 26          | 40   | 5       | 0.05  |        |     |      |  |

MtBE  
 1,2-DCA  
 EDB  
 TAA  
 TBA  
 DIPE  
 ND  
 \*  
 waiting for results

Lithology:  
 Depth to water



Drinking Water Supply Well

BUILDING DETAIL

|      |       |
|------|-------|
| 0    | 30.0  |
| 12   | Patio |
|      | 48.0  |
| 35.3 |       |
| 7-9  |       |

36°  
Columbia, SC

EFIS - Environmental Facility Information System

JST Facility Update for 378 TRUCK STOP

Permit No. 02960 Prefix N Category Retail Sales

Facil. Name 378 TRUCK STOP Acct. Bal. 0

Business 7311 RAY 378 County District

Address EIGHTH STREET AND 204 Phone No. Region

Tank Owner WILKERSON FUEL CO INC D Phone No. 803 744 8000

Operator D Phone No.

Land Owner GAIL & BARBARA WHITMER D Phone No. 803 733 5570 Active Compliance Operators: 0

Last Inspection Transfer of Ownership Financial Responsibility is NOT required!

| Tank    | Total Tanks | Billable | Abandoned | Other | Suspect | Closed | Confirmed | Closed |
|---------|-------------|----------|-----------|-------|---------|--------|-----------|--------|
| Summary | 3           | 0        | 3         | 0     | 0       | 0      | 1         | 0      |

All Active Tanks equipped with UDC

| No. | Proj. Manager | RBCA St | Fin. Status  | Release Information Reported | NFA'd | Confirmed   | CU Complete | CU > RBSL |
|-----|---------------|---------|--------------|------------------------------|-------|-------------|-------------|-----------|
| 1   | RIDGLECT      | TD      | With SUPETRO | OCT 03 1974                  |       | JUL 08 1996 |             |           |

USTfield Release Details Add Release

Permit Notes History Tanks Location Info Financial Resp. Tasks Invoices Documents Enf. Actions

Violations Referrals Utility Report Utility Labels Above Ground Storage Tanks Compliance Oper Lock

Record: 1/1 <OSC> <DBG>

36°  
Columbia, SC

EFIS - Environmental Facility Information System

Tank Summary for Site No. 07969

Facility Name: 578 TRUCK ST Tank Owner: MILRENSONT UPL CO, LLC

| Tank Cts No. | Tank Status | Capacity (gal.) | Substance   | Compliance Status | Compliance Date | UDC |
|--------------|-------------|-----------------|-------------|-------------------|-----------------|-----|
| N 1          | Abandoned   | 2,000           | Gasoline    |                   |                 |     |
| N 2          | Abandoned   | 1,000           | Gasoline    |                   |                 |     |
| N 3          | Abandoned   | 550             | Diesel fuel |                   |                 |     |

Owner @ Abandonment: PRO OIL CO INC

Details Copy Tank Info. Transfer

Record: 1/3 <OSC> <DBG> Print the Desktop

Whisper To: [redacted]  
Whisper To: [redacted]





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EFIS - Environmental Facility Information System

Tank Entry, Update for Site No. 07960

|                 |              |                     |                          |           |              |        |           |
|-----------------|--------------|---------------------|--------------------------|-----------|--------------|--------|-----------|
| Tank No.        | 1            | Compartments?       | <input type="checkbox"/> | Class     | N            | Status | Abandoned |
| Substance       | Gasoline     | CAS No.             |                          | Chemical  |              |        |           |
| Const. Date     |              | Oper. Date          |                          | Capacity  | 2,000 (gal.) |        |           |
| Notified Date   | MAR 14, 1994 | Age at Notification | 0 (yrs)                  | Calc. Age | 167 (yrs)    |        |           |
| Dist. from Well |              | Comments            |                          |           |              |        | E         |
| Var. Granted    |              | Comments            |                          |           |              |        | E         |
| Comp. Status    |              | Comp. Date          |                          |           |              |        |           |

|                                       |   |   |  |          |   |
|---------------------------------------|---|---|--|----------|---|
| Tank Construction                     | Steel                                       | Protection  |  | CP Test  |   |
| Tank Containment                      | Single wall                                 | Overfill Type                                       |  | Verified |   |
| <input type="checkbox"/> UDC Present? | <input type="checkbox"/> Drop Tube Present? | <input type="checkbox"/> Spill Prevention? Verified |  |          | E |
| Leak Detection                        | No methods found                            | Stage 1?  |  | Comments |   |

|                   |                  |            |  |         |   |
|-------------------|------------------|------------|--|---------|---|
| Pipe Construction | Steel            | Protection |  | CP Test |   |
| Pipe Containment  | Single wall      | Comments   |  |         | E |
| Piping Type       |                  |            |  |         |   |
| Leak Detection    | No methods found | Stage 2?   |  |         |   |

|              |                                     |                            |                 |        |
|--------------|-------------------------------------|----------------------------|-----------------|--------|
| Tank Closure | Last Used                           | Notified Date              | Product Left    | (gal.) |
|              | Method: Removed                     | Closure Date: JAN 01, 1997 | Expiration Date |        |
|              | Owner @ Abandonment: P&O OIL CO INC |                            |                 |        |
| History      | Notes                               |                            |                 |        |

Record: 1/1 <OSC> <DBG> Print the Desktop

Welcome To  
Weston  
County

36°  
Columbia, SC

EFIS - Environmental Facility Information System

Tank Entry/Update for Site No. 07980

|                   |                          |                     |                          |                             |   |           |              |
|-------------------|--------------------------|---------------------|--------------------------|-----------------------------|---|-----------|--------------|
| Tank No.          | 2                        | Compartments?       | <input type="checkbox"/> | Class                       | N | Status    | Abandoned    |
| Substance         | Gasoline                 | CAS No.             |                          | Chemical                    |   | Capacity  | 1,000 (gal.) |
| Const. Date       |                          | Oper. Date          |                          | Capacity                    |   | Calc. Age | 16.5 (yrs)   |
| Notified Date     | JUN 14, 1994             | Age at Notification | .0 (yrs)                 | Comments                    |   |           |              |
| Dist. from Well   |                          | Comments            |                          |                             |   |           |              |
| Var. Granted      |                          | Comments            |                          |                             |   |           |              |
| Comp. Status      |                          | Comp. Date          |                          |                             |   |           |              |
| Tank Construction | Steel                    | Protection          |                          | CP Test                     |   |           |              |
| Tank Containment  | Single wall              | Overfill Type       |                          | Verified                    |   |           |              |
| UDC Present?      | <input type="checkbox"/> | Drop Tube Present?  | <input type="checkbox"/> | Spill Prevention? Verified: |   |           |              |
| Leak Detection    | No methods found         | Stage 1?            | <input type="checkbox"/> | Comments                    |   |           |              |
| Pipe Construction | Steel                    | Protection          |                          | CP Test                     |   |           |              |
| Pipe Containment  | Single wall              | Comments            |                          |                             |   |           |              |
| Piping Type       |                          |                     |                          |                             |   |           |              |
| Leak Detection    | No methods found         | Stage 2?            | <input type="checkbox"/> |                             |   |           |              |
| Tank Closure      | Last Used                | Notified Date       |                          | Product Left                |   | (gal.)    |              |
|                   | Method Removed           | Closure Date        | JAN 01, 1987             | Expiration Date             |   |           |              |
|                   | Owner @ Abandonment      | P&O OIL CO INC      |                          |                             |   |           |              |
| History           | Notes                    |                     |                          |                             |   |           |              |

Record: 1/1 <OSC> <DBG>

This document was sent to the printer  
Document: Printed from ridglect  
Printer: LWM\_2501 on lwmwebadm01  
Time: 1:24:47 PM 12/8/2010  
Total pages: 1

36°  
Columbia, SC

EFIS - Environmental Facility Information System

Tank Entry: Update for Site No. 07960

|                 |              |               |  |                     |          |           |            |
|-----------------|--------------|---------------|--|---------------------|----------|-----------|------------|
| Tank No.        | 3            | Compartments? |  | Class               | N        | Status    | Abandoned  |
| Substance       | Diesel fuel  | CAS No.       |  | Chemical            |          | Capacity  | 550 (gal.) |
| Const. Date     |              | Oper. Date    |  | Age at Notification | .0 (yrs) | Calc. Age | 167 (yrs)  |
| Notified Date   | MAR 14, 1994 | Comments      |  |                     |          |           |            |
| Dist. from Well |              | Comments      |  |                     |          |           |            |
| Var. Granted    |              | Comments      |  |                     |          |           |            |
| Comp. Status    |              | Comp. Date    |  |                     |          |           |            |

|                   |                  |                    |  |                   |          |
|-------------------|------------------|--------------------|--|-------------------|----------|
| Tank Construction | Steel            | Protection         |  | CP Test           |          |
| Tank Containment  | Single wall      | Overfill Type      |  | Verified          |          |
| UDC Present?      |                  | Drop Tube Present? |  | Spill Prevention? | Verified |
| Leak Detection    | No methods found | Stage 1?           |  | Comments          |          |

|                   |             |                |                  |          |  |
|-------------------|-------------|----------------|------------------|----------|--|
| Pipe Construction | Steel       | Protection     |                  | CP Test  |  |
| Pipe Containment  | Single wall | Comments       |                  |          |  |
| Piping Type       |             | Leak Detection | No methods found | Stage 2? |  |

|              |                     |                |              |                 |        |
|--------------|---------------------|----------------|--------------|-----------------|--------|
| Tank Closure | Last Used           | Notified Date  |              | Product Left    | (gal.) |
|              | Method              | Closure Date   | JAN 01, 1987 | Expiration Date |        |
|              | Owner @ Abandonment | P&O OIL CO INC |              |                 |        |

History Notes

Record: 1/1 <OSC> <DBG> Print the Desktop

Windows Taskbar: Welcome To... Started At... 12/8/2010

EFIS - Environmental Facility Information System

Task for JST Facility 373 TRUCK STOP (97260)

Tasks:  All  Completed  Incomplete  Pending  Past Due  Export Data to Report / File

Assigned To:  Anyone  Me  My Dept.  Other User  Other Dept.

| Group          | Type    | Description              | Status   | Start/Recd Date | Due Date | Complete Date | Results  |
|----------------|---------|--------------------------|----------|-----------------|----------|---------------|----------|
| UST COMPLIANCE | OWN-USE | Ownership Dispute        | COMPLETE | SEP 21, 2009    |          | SEP 21, 2009  | COMPLETE |
| UST COMPLIANCE | RLS-E   | Release Evaluation       | COMPLETE |                 |          | SEP 12, 2002  | COMPLETE |
| UST COMPLIANCE | GONE-C  | File Purged - Compliance | COMPLETE |                 |          | JAN 22, 1999  | COMPLETE |

s3g.2.TMP - Notepad

investigate RP status for release #1. P&O Oil, Co., Inc. merged with Wilkerson Fuel Co., Inc. on 12/5/1986. The RP status will change to Wilkerson Fuel Co., Inc. Letter in file from DHEC to Wilkerson Fuel Co., Inc. dated Nov. 14, 1990, assigns RP status to Wilkerson Fuel. Scanned to web extender. EFC.

36°  
Columbia, SC

EFIS - Environmental Facility Information System

Task for UST Facility: 378 TRUCK STOP 107960

Tasks:  All  Completed  Incomplete  Pending  Past Due

Assigned To:  Anyone  Me  My Dept.  Other User  Other Dept.

| Group          | Type     | Description              | Status   | Start/Recd Date | Due Date | Complete Date | Results  |
|----------------|----------|--------------------------|----------|-----------------|----------|---------------|----------|
| UST COMPLIANCE | OWN-DISP | Ownership Dispute        | COMPLETE | SEP 21, 2009    |          | SEP 21, 2009  | COMPLETE |
| UST COMPLIANCE | RELEASE  | Release Evaluation       | COMPLETE |                 |          | SEP 12, 2002  | COMPLETE |
| UST COMPLIANCE | GONE-C   | File Purged - Compliance | COMPLETE |                 |          | JAN 22, 1999  | COMPLETE |

s3g.3.TMP - Notepad

11/4/09 Impacted private well investigation was originally entered under permit # 15972. In 2002 this site was determined to be the source of the petroleum contamination.DMP

**Cathleen T. Ridgley - 378 Truck Stop, UST Permit #07960**

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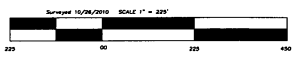
**From:** Christine Dupuis <cdupuis@ecsconsult.com>  
**To:** "Cathleen T. Ridgley" <RIDGLECT@dhec.sc.gov>  
**Date:** 12/9/2010 2:11 PM  
**Subject:** 378 Truck Stop, UST Permit #07960

---

Ms. Ridgley,

I'm trying to put together an updated map for 378 Truck Stop and wanted to let you know of a few changes. It looks like I may have given you an older version of the adjacent property owners table. Based on the survey map, I'm now not sure who owns WSW-6. It's almost right on the property line dividing Gail Whitmer and Shirley Coates. Also, WSW-13 was moved on the map between where the tech had originally plotted it compared to when the surveyor surveyed it in. This well is actually on Mr. Simpkins property (along with WSW-12). Lastly, while we were onsite yesterday, the tech noted that the property where WSW-5 is located is now in foreclosure. A sample could not be collected from this well yesterday as power to the pump has been disconnected. The new owner of this property is 21st Mortgage Company in Knoxville, TN.

I apologize for the confusion with this. I've been trying to keep up to date with all of the information but it looks like I fell behind a bit.



**LEGEND**

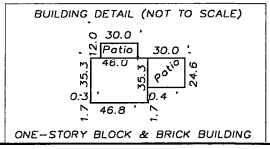
- UTILITY POLE
- TOP OF CURB ELEVATION
- CENTER OF UTILITY
- PROPERTY CORNER
- MONITORING POINT
- RECORD POINT

**Notes:**

1. Measurements on this map are to feet and decimal thereof.
2. All lot corners are (a) (b) unless shown otherwise.
3. This map is subject to all laws, ordinances, regulations, and orders of the State of South Carolina.
4. This map is not a deed and does not constitute an offer of land.
5. Survey points, monuments, and boundaries are represented by a line, circle, square, or other symbol.
6. Survey points, monuments, and boundaries are represented by a line, circle, square, or other symbol.

**Professional Information:**

Surveyed and Plotted by: *[Signature]*  
 Date: 10/24/2010  
 Scale: 1" = 100'



| REVISION |      |
|----------|------|
| NO.      | DATE |
|          |      |
|          |      |
|          |      |
|          |      |

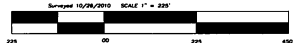
  

|              |           |
|--------------|-----------|
| PROJECT No.  |           |
| BUILDING No. |           |
| SCALE        | 1" = 100' |
| DRAWN BY     |           |
| CHECKED BY   |           |
| DATE         |           |

MONITORING WELL LOCATION SURVEY FOR ENVIRONMENTAL COMPLIANCE SERVICES, INC. FALCONER MOUNTAIN ROAD & U.S. HWY. 378 EDGEFIELD COUNTY, SOUTH CAROLINA

SHEET NO. **51**



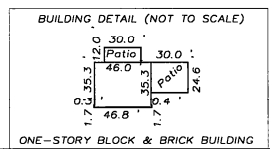
- LEGEND**
- UTILITY POLE
  - TOP OF CURB ELEVATION
  - TOP OF CURB ELEVATION
  - EASEMENT PROPERTY CORNER
  - CALCULATED PROPERTY CORNER
  - MONITORING WELL RECORD SYMBOL



**General Notes:**

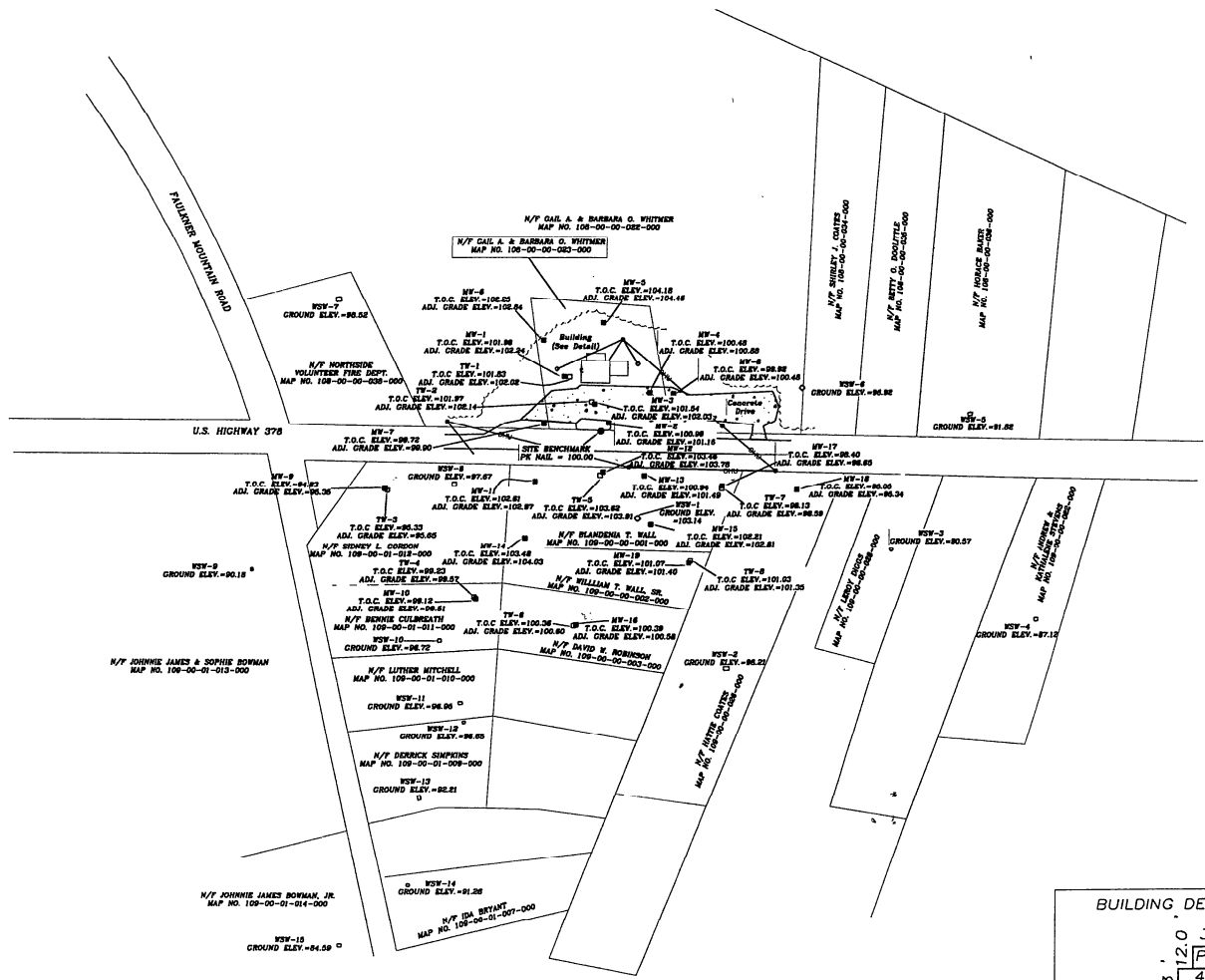
1. Measurements on this map are to be used as shown.
2. All lot corners are to be shown unless otherwise noted.
3. This map is subject to all other laws, ordinances, or decrees of the State of South Carolina.
4. No new lots or property lines established.
5. The surveyor is not to be held responsible for any errors or omissions in this map or for any consequences that may result from its use.
6. No warranty is made by the surveyor for any use of this map for purposes other than those shown.

Surveyed: 10/28/2010  
 State of South Carolina  
 Professional Engineer  
 License No. 12345



|   |  |      |          |
|---|--|------|----------|
| PROJECT No. 2010-001  |  | DATE | REVISION |
| DRAWING No. 1-1-2224  |  |      |          |
| PROJECT TITLE: MONITORING WELL LOCATION SURVEY FOR ENVIRONMENTAL COMPLIANCE SERVICES, INC. FAULKNER MOUNTAIN ROAD & U.S. HWY. 378, EDGEFIELD COUNTY, SOUTH CAROLINA |  | DATE | REVISION |
| DRAWN BY: [Name]  |  | DATE | REVISION |
| CHECKED BY: [Name]  |  | DATE | REVISION |
| APPROVED BY: [Name]   |  | DATE | REVISION |
| SCALE: AS SHOWN   |  | DATE | REVISION |
| PROJECT LOCATION: [Address]   |  | DATE | REVISION |
| PROJECT NO.:  |  | DATE | REVISION |
| DRAWING NO.:  |  | DATE | REVISION |
| SHEET NO. 51  |  | DATE | REVISION |





**BUILDING DETAIL**

|     |      |      |       |
|-----|------|------|-------|
| 0.3 | 35.3 | 12.0 | 30.0  |
|     |      |      | Patio |
|     |      |      | 46.0  |

## **DHEC Columbia Office**

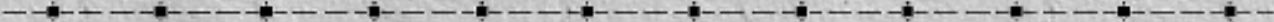
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### **Bureau of Land & Waste Management**

**Cathleen Ridgley      803-896-6633**

**Chris Doll              803-896-6585**

**Donna Moye            803-896-4281**



**Questions or Comments?**



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# **Community Meeting**

## **Former 378 Truck Stop**

### **Groundwater Investigation**

**December 13, 2010**

## Purpose of Meeting

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- ✦ **To inform you of activities being conducted in this area to assess a gasoline release from the former truck stop.**
- ✦ **Activities include:**
  - ◆ **The sampling of all drinking water wells in the area for petroleum or gasoline chemicals.**
  - ◆ **The installation and sampling of monitoring wells to determine the extent of these chemicals in the groundwater.**

## What is gasoline?

- 
- ✧ Gasoline contains over 150 chemicals.
  - ✧ Gasoline floats on water as a free product and some of it dissolves and moves with the groundwater.
  - ✧ Chemicals found in gasoline include Benzene, Toluene, Ethylbenzene, Xylenes, and Naphthalene.
  - ✧ Other chemicals added to gasoline include oxygenates (unleaded gas) and lead scavengers (leaded gas; not in use anymore).

## **Sampling of Drinking Wells**

---

- ✧ **Gasoline chemicals were first reported in the groundwater in the 1970s.**
- ✧ **DHEC funded the installation of new drinking wells for the owners whose wells contained gasoline, and monitored these wells to ensure clean drinking water.**
- ✧ **15 drinking water wells were sampled in May 2010. No gasoline chemicals were detected in these wells.**
- ✧ **In October 2010, gasoline chemicals were reported in drinking water wells.**

# Drinking Water Wells





# GAC Unit



## Investigation Activities

---

- ✦ **The installation of monitoring wells has to be conducted in separate events due to the geology underlying the site.**
- ✦ **A total of 35 monitoring wells (26 shallow; 9 deep) have been installed and sampled at the site so far.**
- ✦ **Additional monitoring wells may need to be installed depending on the lab data we receive from the 9 most recently installed monitoring wells.**

## Monitoring Wells



## **Future Activities**

---

- \* Continue to sample all drinking wells.**
- \* Sample monitoring wells and install more if necessary.**
- \* Provide you copies of all reports of findings.**
- \* Maintain GAC units and install additional ones if necessary.**
- \* Listen to community concerns and respond to complaints about water taste or odor.**
- \* Explore cleanup options.**

## **DHEC Local Contacts**

---

### **EQC Region 1 – Greenwood**

**Christopher McCluskey    864-223-0333**

**Donna Rowe                    864-223-0333**

Dec 13, 2016

→ WSW-7 518' depth FIRE DEPARTMENT  
GORDON 280' / BENNY 120' / 360' BOWMAN JR

W/ LOWER WATER TABLE LOWERED CAN WE TELL HOW FAST  
THE PLUME IS MOVING?

WITH THE PRESENCE OF THESE

→ CHEMICALS - - WHAT WOULD THE SYMPTOMS BE FROM  
EXPOSURE?

→ WIFE WORKS @ EMERALD CENTER - KEPT PATIENTS IN HOME  
WELL TESTED EVERY YEAR (BACT.) -  
WELL WENT BAD ↓ WATER DOESN'T TASTE GOOD  
WELL WAS REPAIRED

GORDON

→ 1-2, DCS colorless, oily residue,  
CONCERNS ABOUT HEALTH EFFECTS

→ IF WE GET INFORMATION - NEEDS TO GO TO  
COUNTY WATER + SEWER COMMISSION - AHEAD?

→ Ms FURRY - black film in KITCHEN AND BATHROOM

→ WHAT CAN BE DONE TO KEEP THIS FROM GETTING  
ANY WORSE?

→ HOW CAN THE COCs BE CLEANED UP?

ARE THERE ANY SMALL FUEL OIL TANKS PRESENT  
AT THIS SITE.

GOUL WINTER  
1226 NW 378 E

803 637-3878



## Community Meeting

**Make plans to attend a Community Meeting!**

**WHEN:** Monday, December 13, 2010

**TIME:** 6:00 P.M.

**WHERE:** McKendree Methodist Church  
565 Highway 378 East  
Edgefield, SC

**PURPOSE:** During this meeting, S.C. Department of Health and Environmental Control (DHEC) staff will be discussing issues and plans related to the old Highway 378 Truck Stop, which is located at 731 Highway 378 East, Edgefield. If you know of other citizens in the immediate area who might be interested in this information, please invite them to attend as well.

If you would like further information concerning this meeting, please call Donna Rowe in DHEC's Greenwood EQC Office at (864) 223-0333.



**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured         | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|-----------------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-1    | 5/25/10 <sup>3</sup>  | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|         | 10/18/10 <sup>4</sup> | 101.98                       | 26.50                      | 26.54                      | 0.04                        | 75.47                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 21.70                      | --                          | 80.28                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.17                      | --                          | 70.81                                    |                 |                        |
| MW-2    | 5/25/10               | 101.02                       | --                         | 16.82                      | --                          | 84.20                                    | 41.72           | unknown                |
|         | 10/18/10              | 100.99                       | --                         | 27.10                      | --                          | 73.89                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 23.34                      | --                          | 77.68                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 30.91                      | --                          | 70.08                                    |                 |                        |
| MW-3    | 5/25/10               | 101.46                       | --                         | 17.28                      | --                          | 84.18                                    | 40              | 10-40                  |
|         | 10/18/10              | 101.54                       | --                         | 27.58                      | --                          | 73.96                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 23.78                      | --                          | 77.76                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.38                      | --                          | 70.16                                    |                 |                        |
| MW-4    | 5/25/10               | 100.50                       | --                         | 16.35                      | --                          | 84.15                                    | 40              | 10-40                  |
|         | 10/18/10              | 100.48                       | --                         | 26.20                      | --                          | 74.28                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 22.12                      | --                          | 78.36                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 29.92                      | --                          | 70.56                                    |                 |                        |
| MW-5    | 5/25/10               | 104.21                       | --                         | 27.30                      | --                          | 76.91                                    | 40              | 20-40                  |
|         | 10/18/10              | 104.18                       | --                         | 30.24                      | --                          | 73.94                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 27.63                      | --                          | 76.55                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 34.18                      | --                          | 70.00                                    |                 |                        |
| MW-6    | 10/18/10              | 102.25                       | --                         | 28.01                      | --                          | 74.24                                    | 35.05           | 20.05-35.05            |
|         | 4/19/11               |                              | --                         | 23.06                      | --                          | 79.19                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 32.01                      | --                          | 70.24                                    |                 |                        |
| MW-7    | 10/18/10              | 99.72                        | --                         | 25.10                      | --                          | 74.62                                    | 34.92           | 19.92-34.92            |
|         | 4/19/11               |                              | --                         | 21.04                      | --                          | 78.68                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 25.83                      | --                          | 73.89                                    |                 |                        |
| MW-8    | 10/18/10              | 99.92                        | --                         | 25.45                      | --                          | 74.47                                    | 35.08           | 20.08-35.08            |
|         | 4/19/11               |                              | --                         | 22.51                      | --                          | 77.41                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 28.62                      | --                          | 71.30                                    |                 |                        |
| MW-9    | 10/18/10              | 94.83                        | --                         | 30.31                      | --                          | 64.52                                    | 35.17           | 20.17-35.17            |
|         | 4/19/11               |                              | --                         | 24.13                      | --                          | 70.70                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 28.08                      | --                          | 66.75                                    |                 |                        |
| MW-10   | 10/18/10              | 99.12                        | --                         | 29.73                      | --                          | 69.39                                    | 40.16           | 25.16-40.16            |
|         | 4/19/11               |                              | --                         | 26.18                      | --                          | 72.94                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.51                      | --                          | 67.61                                    |                 |                        |
| MW-11   | 10/18/10              | 102.61                       | --                         | 28.75                      | --                          | 73.86                                    | 35.23           | 20.23-35.23            |
|         | 4/19/11               |                              | --                         | 25.59                      | --                          | 77.02                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 32.42                      | --                          | 70.19                                    |                 |                        |
| MW-12   | 10/18/10              | 103.46                       | --                         | 29.63                      | --                          | 73.83                                    | 34.99           | 19.99-34.99            |
|         | 4/19/11               |                              | --                         | 26.11                      | --                          | 77.35                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 33.56                      | --                          | 69.90                                    |                 |                        |
| MW-13   | 10/18/10              | 101.48                       | --                         | 27.63                      | --                          | 73.85                                    | 40.19           | 25.19-40.19            |
|         | 4/19/11               |                              | --                         | 23.50                      | --                          | 77.98                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.34                      | --                          | 70.14                                    |                 |                        |
| MW-14   | 10/18/10              | 103.48                       | --                         | 29.99                      | --                          | 73.49                                    | 39.74           | 24.74-39.74            |
|         | 4/19/11               |                              | --                         | 28.52                      | --                          | 74.96                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 34.59                      | --                          | 68.89                                    |                 |                        |

12/15/11

36.52

6W elev.  
 ↓ 2 ft. since 8/2011

12/15/11  
 BTW 33.50'

12/15/11  
 BTW 33.42'

12/15/11  
 34.06'

dry  
 12/20/11

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA <sup>1</sup>**  
**378 TRUCK STOP**

| Well ID            | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|--------------------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-15              | 10/18/10      | 103.16                       | --                         | 30.32                      | --                          | 72.84                                    | 40.13           | 25.13-40.13            |
|                    | 4/19/11       |                              | --                         | 25.18                      | --                          | 77.98                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 33.50                      | --                          | 69.66                                    |                 |                        |
| MW-16              | 10/18/10      | 101.32                       | --                         | 30.79                      | --                          | 70.53                                    | 40.11           | 25.11-40.11            |
|                    | 4/19/11       |                              | --                         | 24.59                      | --                          | 76.73                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 32.68                      | --                          | 68.64                                    |                 |                        |
| MW-17              | 10/18/10      | 98.40                        | --                         | 23.74                      | --                          | 74.66                                    | 35.02           | 20.02-35.02            |
|                    | 4/19/11       |                              | --                         | 18.20                      | --                          | 80.20                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 28.55                      | --                          | 69.85                                    |                 |                        |
| MW-18              | 10/18/10      | 95.05                        | --                         | 22.02                      | --                          | 73.03                                    | 35.67           | 20.67-35.67            |
|                    | 4/19/11       |                              | --                         | 15.71                      | --                          | 79.34                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 23.00                      | --                          | 72.05                                    |                 |                        |
| MW-19              | 10/18/10      | 101.07                       | --                         | 27.62                      | --                          | 73.45                                    | 38.57           | 23.57-38.57            |
|                    | 4/19/11       |                              | --                         | 21.63                      | --                          | 79.44                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 30.56                      | --                          | 70.51                                    |                 |                        |
| MW-20 <sup>5</sup> | 12/6/10       | 110.52                       | --                         | 41.77                      | --                          | 68.75                                    | 45.05           | 30.05-45.05            |
|                    | 4/19/11       |                              | --                         | 37.72                      | --                          | 72.80                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 41.27                      | --                          | 69.25                                    |                 |                        |
| MW-21              | 12/6/10       | 101.70                       | --                         | 32.66                      | --                          | 69.04                                    | 40.16           | 25.16-40.16            |
|                    | 4/19/11       |                              | --                         | 24.19                      | --                          | 77.51                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 38.77                      | --                          | 62.93                                    |                 |                        |
| MW-22              | 12/6/10       | 105.13                       | --                         | 34.95                      | --                          | 70.18                                    | 40.09           | 25.09-40.09            |
|                    | 4/19/11       |                              | --                         | 28.56                      | --                          | 76.57                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 35.88                      | --                          | 69.25                                    |                 |                        |
| MW-23              | 12/6/10       | 100.01                       | --                         | 29.26                      | --                          | 70.75                                    | 37.24           | 22.24-37.24            |
|                    | 4/19/11       |                              | --                         | 19.69                      | --                          | 80.32                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.01                      | --                          | 71.00                                    |                 |                        |
| MW-24              | 12/6/10       | 99.08                        | --                         | 32.25                      | --                          | 66.83                                    | 40.13           | 25.13-40.13            |
|                    | 4/19/11       |                              | --                         | 25.58                      | --                          | 73.50                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 31.62                      | --                          | 67.46                                    |                 |                        |
| MW-25              | 12/6/10       | 101.54                       | --                         | 32.00                      | --                          | 69.54                                    | 39.98           | 24.98-39.98            |
|                    | 4/19/11       |                              | --                         | 23.44                      | --                          | 78.10                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 32.18                      | --                          | 69.36                                    |                 |                        |
| MW-26              | 12/6/10       | 97.25                        | --                         | 29.08                      | --                          | 68.17                                    | 38.74           | 23.74-38.74            |
|                    | 4/19/11       |                              | --                         | 21.07                      | --                          | 76.18                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.08                      | --                          | 68.17                                    |                 |                        |
| MW-27              | 12/6/10       | 97.20                        | --                         | 28.48                      | --                          | 68.72                                    | 35.1            | 20.10-35.10            |
|                    | 4/19/11       |                              | --                         | 24.42                      | --                          | 72.78                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.24                      | --                          | 67.96                                    |                 |                        |
| MW-28              | 12/6/10       | 101.29                       | --                         | 33.39                      | --                          | 67.90                                    | 40.03           | 25.03-40.03            |
|                    | 4/19/11       |                              | --                         | 20.91                      | --                          | 80.38                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.92                      | --                          | 71.37                                    |                 |                        |

12/15/11  
0.25' FP  
POST APVR  
0.06' FP  
DTW 38.05'  
DTW 39.66'

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| TW-1    | 10/18/10      | 101.83                       | --                         | 28.44                      | --                          | 73.39                                    | 63.27           | 58.27-63.27            |
|         | 4/19/11       |                              | --                         | 25.53                      | --                          | 76.30                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 32.26                      | --                          | 69.57                                    |                 |                        |
| TW-2    | 10/18/10      | 101.97                       | --                         | 29.57                      | --                          | 72.40                                    | 80.23           | 75.23-80.23            |
|         | 4/19/11       |                              | --                         | 23.83                      | --                          | 78.14                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 31.62                      | --                          | 70.35                                    |                 |                        |
| TW-3    | 10/18/10      | 95.33                        | --                         | 25.39                      | --                          | 69.94                                    | 80.62           | 75.62-80.62            |
|         | 4/19/11       |                              | --                         | 23.83                      | --                          | 71.50                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 27.78                      | --                          | 67.55                                    |                 |                        |
| TW-4    | 10/18/10      | 99.23                        | --                         | 43.13                      | --                          | 56.10                                    | 68.56           | 63.56-68.56            |
|         | 4/19/11       |                              | --                         | 27.11                      | --                          | 72.12                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 31.09                      | --                          | 68.14                                    |                 |                        |
| TW-5    | 10/18/10      | 103.62                       | --                         | 29.69                      | --                          | 73.93                                    | 58.38           | 53.38-58.38            |
|         | 4/19/11       |                              | --                         | 25.96                      | --                          | 77.66                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 33.09                      | --                          | 70.53                                    |                 |                        |
| TW-6    | 10/18/10      | 101.29                       | --                         | 31.22                      | --                          | 70.07                                    | 58.55           | 53.55-58.55            |
|         | 4/19/11       |                              | --                         | 25.25                      | --                          | 76.04                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 33.00                      | --                          | 68.29                                    |                 |                        |
| TW-7    | 10/18/10      | 98.13                        | --                         | 50.90                      | --                          | 47.23                                    | 58.94           | 53.94-58.94            |
|         | 4/19/11       |                              | --                         | 16.83                      | --                          | 81.30                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 36.98                      | --                          | 61.15                                    |                 |                        |
| TW-8    | 10/18/10      | 101.03                       | --                         | 28.18                      | --                          | 72.85                                    | 58.53           | 53.53-58.53            |
|         | 4/19/11       |                              | --                         | 22.19                      | --                          | 78.84                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 41.54                      | --                          | 59.49                                    |                 |                        |
| TW-9    | 12/6/10       | 96.92                        | --                         | 28.96                      | --                          | 67.96                                    | 80.12           | 75.12-80.12            |
|         | 4/19/11       |                              | --                         | 21.14                      | --                          | 75.78                                    |                 |                        |
|         | 8/29/11       |                              | --                         | 28.94                      | --                          | 67.98                                    |                 |                        |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|--------------------|-------------------|----------------------|----------------------|-------------|--------------------|-----------------|------------|-------------------|
| MW-1    | 5/25/10     | Free Product       |                   |                      |                      |             |                    |                 |            |                   |
|         | 10/18/10    | Free Product       |                   |                      |                      |             |                    |                 |            |                   |
|         | 4/19/11     | 456                | 210               | 1,010                | 4,700                | <50.0       | 277                | <50.0           | 1.2        | NR                |
|         | 8/29/11     | 1,130              | 317               | 941                  | 3,779                | <50         | 225                | 82              | 1.3        | NR                |
| MW-2    | 5/25/10     | 109 <sup>2</sup>   | <5.0 <sup>3</sup> | 114                  | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035      | NR                |
|         | 10/19/10    | 1.7 J <sup>5</sup> | <5.0              | <5.0                 | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020     | NR                |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 28.5            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 26.1            | <0.019     | NR                |
| MW-3    | 5/25/10     | 239                | 139               | 815                  | 4,800                | <5.0        | 285                | 126             | 0.099      | 28.9              |
|         | 10/18/10    | 6,820              | 343               | 981                  | 6,260                | 3.4 J       | 449                | 561             | 0.31       | NR                |
|         | 4/19/11     | 7,300              | 253               | 921                  | 5,060                | <250        | 342                | 542             | 0.30       | NR                |
|         | 8/29/11     | 7,000              | 572               | 1,170                | 6,710                | <250        | 371                | 438             | 0.033      | NR                |
| MW-4    | 5/25/10     | 2.9 J              | <5.0              | 1.4 J                | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020     | 62.8              |
|         | 10/18/10    | 5.7                | <5.0              | <5.0                 | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020     | NR                |
|         | 4/20/11     | 16.4               | <5.0              | 6.0                  | 14.0                 | <5.0        | 9.3                | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-5    | 5/25/10     | 3.6 J              | 1.8 J             | 4.0 J                | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020     | 11.8              |
|         | 10/18/10    | 102                | <5.0              | 4.1 J                | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020     | NR                |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| MW-6    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| MW-7    | 10/19/10    | 12.9               | 4.6 J             | 3.2 J                | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40       | <5.0              |
|         | 4/20/11     | 794                | 108               | 410                  | 2,536                | <5.0        | 116                | 66.6            | 6.9        | NR                |
|         | 8/29/11     | 275                | <10.0             | 42.6                 | 178.8                | <10.0       | 30.7               | 26              | 0.58       | NR                |
| MW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | 4.0 J                | <5.0        | 2.2 J              | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| MW-9    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/19/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-10   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
|         | 4/19/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-11   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 1.3 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | 7.9                | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 2.8 J           | <0.019     | NR                |
| MW-12   | 10/19/10    | 387                | 1,210             | 120                  | 2,650                | <5.0        | 187                | 24.7            | 4.8        | <5.0              |
|         | 4/20/11     | 1,360              | 987               | 462                  | 1,659                | <50.0       | 91.3               | 75.7            | 6.0        | NR                |
|         | 8/29/11     | 429                | 26.9              | 8.3 J                | 18.3 J               | <12.5       | 5.2 J              | 126             | 2.5        | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| MW-13   | 10/19/10    | 333            | 109            | 58.3                | 282                  | <10.0       | 10.1               | 61.9           | 0.022      | <5.0              |
|         | 4/20/11     | 376            | 46.8           | 31.2                | 394                  | <12.5       | 11.7 J             | 57.0           | 0.074      | NR                |
|         | 8/29/11     | 65.5           | 11.7           | 9.2                 | 34.2                 | <5.0        | <5.0               | 41.7           | 0.033      | NR                |
| MW-14   | 10/19/10    | <5.0           | <5.0           | 2.5 J               | 9.5 J                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | 2.8 J          | <5.0           | 3.4 J               | 5.8 J                | <5.0        | 22                 | <5.0           | <0.020     | NR                |
| MW-15   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.0 J          | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| MW-16   | 10/19/10    | 246            | 26.1           | 14.3                | 229.2                | <5.0        | <5.0               | 2.5 J          | <0.020     | <5.0              |
|         | 4/19/11     | 158            | 8.5            | 2.5 J               | 96.2                 | <5.0        | 5.8                | <5.0           | <0.020     | NR                |
|         | 8/29/11     | NR             | NR             | NR                  | NR                   | NR          | NR                 | NR             | <0.019     | NR                |
| MW-17   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | 4.3 J             |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-18   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| MW-19   | 10/19/10    | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-20   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-21   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/21/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-22   | 12/6/10     | <b>11,900</b>  | <b>29,500</b>  | <b>1,800</b>         | <b>11,400</b>        | <100        | <b>522</b>         | <b>463</b>     | <b>122</b> | <b>15.3</b>       |
|         | 4/20/11     | <b>8,690</b>   | <b>20,600</b>  | <b>1,870</b>         | <b>11,070</b>        | <1,250      | <1,250             | <1,250         | <b>119</b> | NR                |
|         | 8/29/11     | <b>3,630</b>   | <b>23,500</b>  | <b>3,530</b>         | <b>20,200</b>        | <1,000      | <b>859 J</b>       | <1,000         | <b>188</b> | NR                |
| MW-23   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-24   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <b>6.7</b>     | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 4.1 J          | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019     | NR                |
| MW-25   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-26   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| MW-27   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <b>6.4</b>     | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.6 J          | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-28   | 12/6/10     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/21/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-1    | 10/18/10    | <5.0           | <5.0           | <5.0                 | <15.0                | 5.7         | <5.0               | <b>64.2</b>    | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                 | <15.0                | 5.0         | <5.0               | <b>48.9</b>    | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                 | <15.0                | 6.4         | <5.0               | <b>48.4</b>    | <0.019     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ng/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-2    | 10/19/10    | <5.0           | 3.4 J          | <5.0                | 2.8 J                | <5.0        | <5.0               | 4.2 J          | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | 1.6 J          | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| TW-3    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-4    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | 2.9 J       | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-5    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 1.7 J          | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID            | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|--------------------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-6               | 10/19/10    | 1.5 J          | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 5.1            | <0.020     | <5.0              |
|                    | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.6 J          | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 8.9            | <0.019     | NR                |
| TW-7               | 10/19/10    | <5.0           | 1.9 J          | <5.0                | 5.6 J                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|                    | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| TW-8               | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | <5.0              |
|                    | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-9               | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|                    | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-10 <sup>6</sup> | 12/2/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | 2.9 J              | <5.0           | <0.020     | NR                |



**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID                       | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|-------------------------------|-------------|---|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| WSW-1                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     | NR                |
| WSW-1<br>pre GAC <sup>7</sup> | 11/18/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 2.4            | <0.019     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020     | NR                |
| WSW-1<br>post GAC             | 11/18/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020     | NR                |
| WSW-2                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | Not Sampled   |                |                     |                      |             |                    |                |            |                   |
| WSW-3                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 5/3/11      | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020     | NR                |
| WSW-4                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019     | NR                |
| WSW-5                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 4/21/11     | Well pump not operational, could not collect sample |                |                     |                      |             |                    |                |            |                   |
|                               | 8/29/11     | Not Sampled   |                |                     |                      |             |                    |                |            |                   |
| WSW-6                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 0.88 J         | <0.019     | NR                |
| WSW-7                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019     | NR                |
| WSW-8                         | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | 3.6 J       | <5.0               | 9.2            | <0.020     | NR                |
| WSW-8<br>pre GAC <sup>8</sup> | 11/12/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 7.5            | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.9 J          | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 1.6            | <0.019     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID           | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------|-------------|---|----------------|---------------------|----------------------|-------------|--------------------|----------------|-------------|-------------------|
| WSW-8<br>post GAC | 11/12/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019      | NR                |
| WSW-9             | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
| WSW-10            | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 0.45 J         | <0.020      | NR                |
| WSW-11            | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | 0.45 J         | <0.019      | NR                |
| WSW-12            | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | Well pump not operational, could not collect sample |                |                     |                      |             |                    |                |             |                   |
|                   | 8/29/11     | Not Sampled   |                |                     |                      |             |                    |                |             |                   |
| WSW-13            | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
| WSW-14            | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | 1.3         | <1.0               | <1.0           | <0.020      | NR                |
| WSW-15            | 10/19/10    | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
| <b>RBSL*</b>      |             | <b>5</b>  | <b>1,000</b>   | <b>700</b>          | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> | <b>15</b>         |

Notes:

- Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
- Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
- Less than the reporting limit specified in the laboratory report.
- Analyses not requested.
- Estimated value below the laboratory reporting limit.
- TW-10 did not produce enough water and was subsequently abandoned following sample collection.
- WSW-1 GAC installed on 11/18/10.
- WSW-8 GAC installed on 11/12/10.
- May 2001 Risk-Based Screening Level.

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID | Date Sampled | Ethanol (ug/L)    | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-Isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|---------|--------------|-------------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-1    | 10/18/10     | Free Product      |                                      |                                  |                               |                                     |                                      |                                |                                 |
|         | 4/19/11      | <2,000            | <100                                 | <50.0                            | <1,000                        | <1,000                              | <100                                 | <1,000                         | <500                            |
|         | 8/29/11      | <2,000            | <100                                 | <50.0                            | <1,000                        | <1,000                              | <100                                 | 2,160                          | <500                            |
| MW-2    | 10/19/10     | <200 <sup>2</sup> | <10.0                                | <5.0                             | <100                          | 254                                 | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | 336                                 | <10.0                                | 96.2 J                         | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | 386                                 | <10.0                                | 87.1 J                         | <50.0                           |
| MW-3    | 10/18/10     | <200              | <10.0                                | 55.7                             | <100                          | 773                                 | <10.0                                | 12,900 <sup>3</sup>            | <50.0                           |
|         | 4/19/11      | <10,000           | <500                                 | <250                             | <5,000                        | <5,000                              | <500                                 | 13,800                         | <2,500                          |
|         | 8/29/11      | <10,000           | <500                                 | <250                             | <5,000                        | <5,000                              | <500                                 | 10,300                         | <2,500                          |
| MW-4    | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 199                            | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-5    | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 168                            | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-6    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 131                            | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-7    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 2,650                          | <50.0                           |
|         | 8/29/11      | <400              | <20.0                                | <10.0                            | <200                          | 225                                 | <20.0                                | 672                            | <100                            |
| MW-8    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 244                            | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-9    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-10   | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-11   | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-12   | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | 83.0 J <sup>4</sup>                 | <10.0                                | 267                            | <50.0                           |
|         | 4/20/11      | <2,000            | <100                                 | <50.0                            | <1,000                        | <1,000                              | <100                                 | <1,000                         | <500                            |
|         | 8/29/11      | <500              | <25.0                                | 4.8 J                            | <250                          | <250                                | <25.0                                | 615                            | <125                            |
| MW-13   | 10/19/10     | <400              | <20.0                                | <10.0                            | <200                          | <200                                | <20.0                                | 1,260                          | <100                            |
|         | 4/20/11      | <500              | <25.0                                | <12.5                            | <250                          | <250                                | <25.0                                | 1,210                          | <125                            |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 1,040                          | <50.0                           |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|---------|--------------|----------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-14   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-15   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-16   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 360                            | <50.0                           |
|         | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 321                            | <50.0                           |
|         | 8/29/11      | Not Requested  |                                      |                                  |                               |                                     |                                      |                                |                                 |
| MW-17   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-18   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-19   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-20   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-21   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/21/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 368                            | <50.0                           |
| MW-22   | 12/6/10      | <4,000         | <200                                 | <100                             | <2,000                        | <2,000                              | <200                                 | 9,730                          | <1,000                          |
|         | 4/20/11      | <50,000        | <2,500                               | <1,250                           | <25,000                       | <25,000                             | <2,500                               | <25,000                        | <12,500                         |
|         | 8/29/11      | <40,000        | <2,000                               | <1,000                           | <20,000                       | <20,000                             | <2,000                               | <20,000                        | <10,000                         |
| MW-23   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-24   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-25   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-26   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                       | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|-------------------------------|--------------|----------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-27                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-28                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-1                          | 10/18/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 1,180                          | <50.0                           |
|                               | 4/19/11      | <200           | <10.0                                | 1.8 J                            | <100                          | <100                                | <10.0                                | 1,000                          | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 871                            | <50.0                           |
| TW-2                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 95.4 J                         | <50.0                           |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-3                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-4                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-5                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 368                            | <50.0                           |
| TW-6                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-7                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-8                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-9                          | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-10 <sup>5</sup>            | 12/2/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-1<br>pre GAC <sup>6</sup> | 11/18/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | 8.3 J                               | <10.0                                | <100                           | <50.0                           |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                       | Date Sampled | Ethanol (ug/L)   | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|-------------------------------|--------------|--|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| WSW-1<br>post GAC             | 11/18/10     | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-2                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/20/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | Not Sampled  |                                      |                                  |                                |                                     |                                      |                                |                                 |
| WSW-3                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 5/3/11       | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-4                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-5                         | 12/8/10      | Not sampled for oxygenates. Well pump electric disconnected. |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                               | 4/21/11      | Well pump not operational, could not collect sample          |                                      |                                  |                                |                                     |                                      |                                |                                 |
|                               | 8/29/11      | Not Sampled  |                                      |                                  |                                |                                     |                                      |                                |                                 |
| WSW-6                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-7                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-8<br>pre GAC <sup>7</sup> | 11/12/10     | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 262                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-8<br>post GAC             | 11/12/10     | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-9                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-10                        | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-11                        | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                          | Date Sampled | Ethanol (ug/L)  | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-Isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|----------------------------------|--------------|---|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| WSW-12                           | 12/8/10      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/11      | Well pump not operational, could not collect sample       |                                      |                                  |                               |                                     |                                      |                                |                                 |
|                                  | 8/29/11      | Not Sampled   |                                      |                                  |                               |                                     |                                      |                                |                                 |
| WSW-13                           | 12/8/10      | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |                                      |                                  |                               |                                     |                                      |                                |                                 |
|                                  | 4/21/11      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/11      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-14                           | 12/8/10      | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |                                      |                                  |                               |                                     |                                      |                                |                                 |
|                                  | 4/21/11      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/11      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-15                           | 12/8/10      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 4/21/11      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                                  | 8/29/11      | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| <b>Action Levels<sup>8</sup></b> |              | <b>10,000</b>   | <b>47</b>                            | <b>150</b>                       | <b>NA</b>                     | <b>1,400</b>                        | <b>128</b>                           | <b>240</b>                     | <b>NA</b>                       |

Notes:

1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.



**Neil Bartley**  
Safety Coordinator

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18 Faulkner Mountain Road  
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29824-4112

Carolyn Fulker  
(Sister)

Jonathan Williams  
1170 Long Cane Rd.  
Edgefield S.C.

(803) 637-9366 <sup>29824</sup>  
<sup>(803)</sup> 480-4079

Friday off




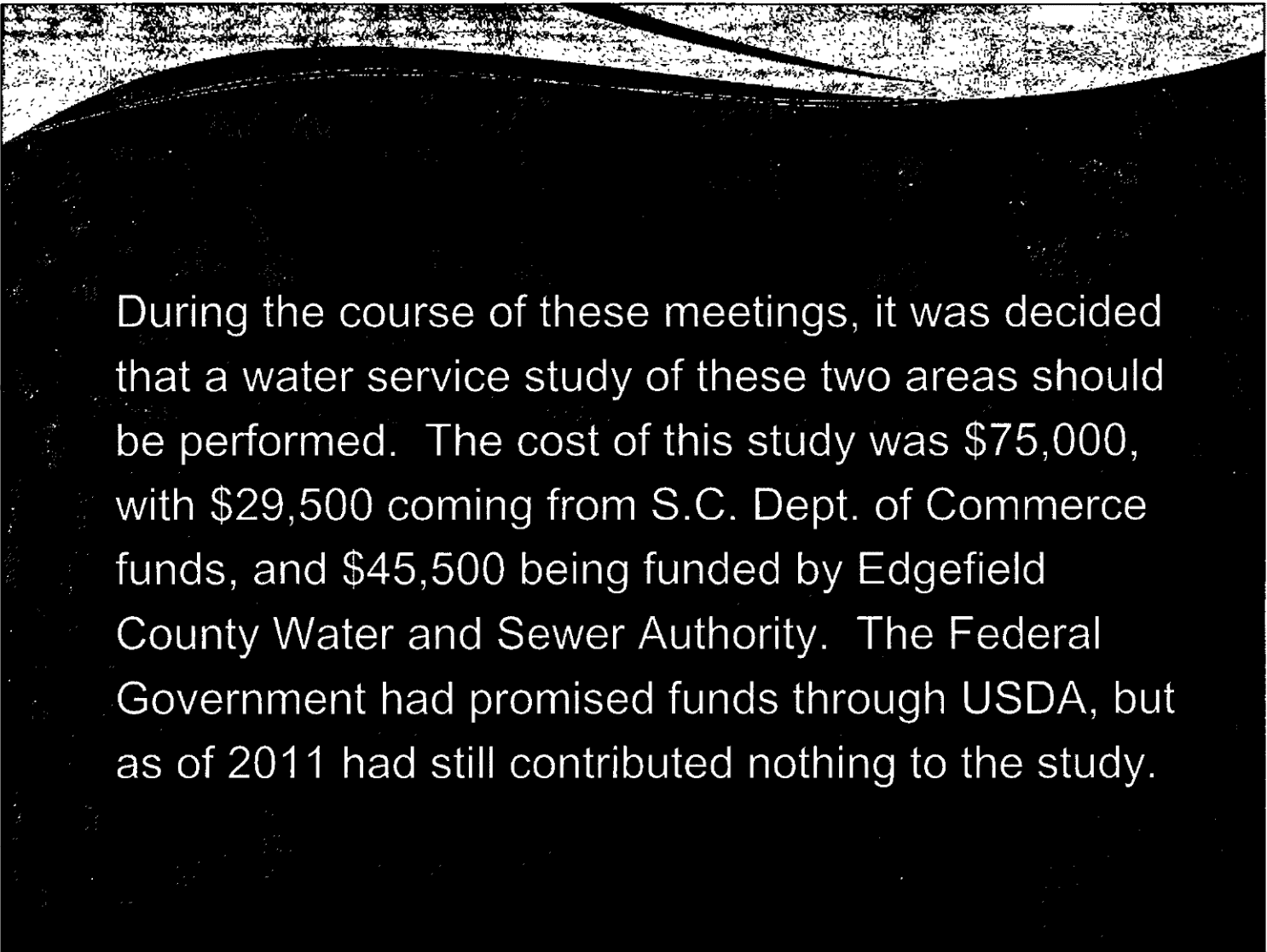


# **Edgefield County Water & Sewer Authority**

North Side/ West side Water Service Study

September 2011

- 
- Over the years , there has been a desire for a public water supply in the Northern and Western sections of Edgefield County. From late 2007 through 2009, Edgefield County Water and Sewer Authority along with Edgefield County, met with State and Federal Representatives to explore options in providing water to these two areas.

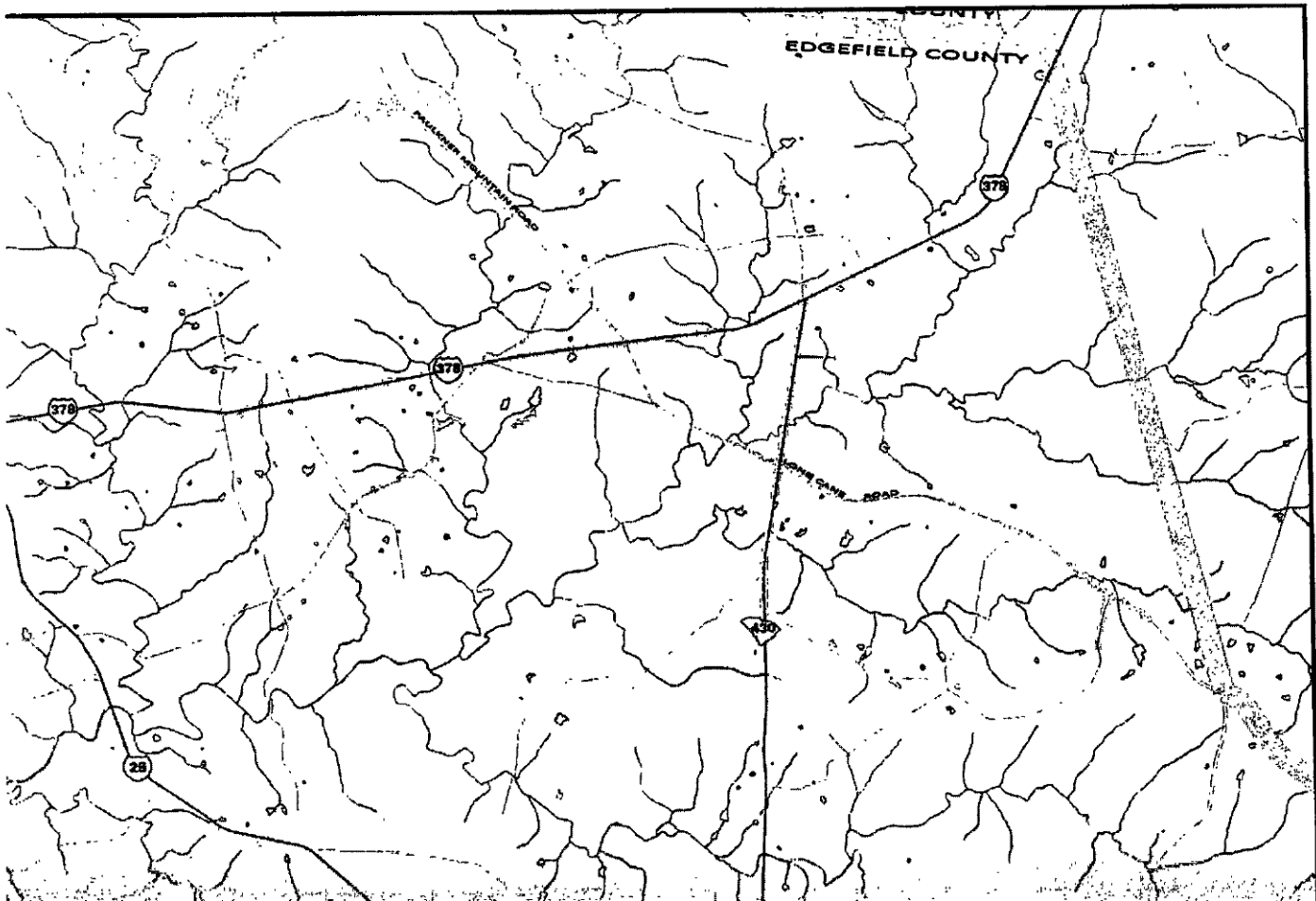


During the course of these meetings, it was decided that a water service study of these two areas should be performed. The cost of this study was \$75,000, with \$29,500 coming from S.C. Dept. of Commerce funds, and \$45,500 being funded by Edgefield County Water and Sewer Authority. The Federal Government had promised funds through USDA, but as of 2011 had still contributed nothing to the study.

## SCOPE OF STUDY

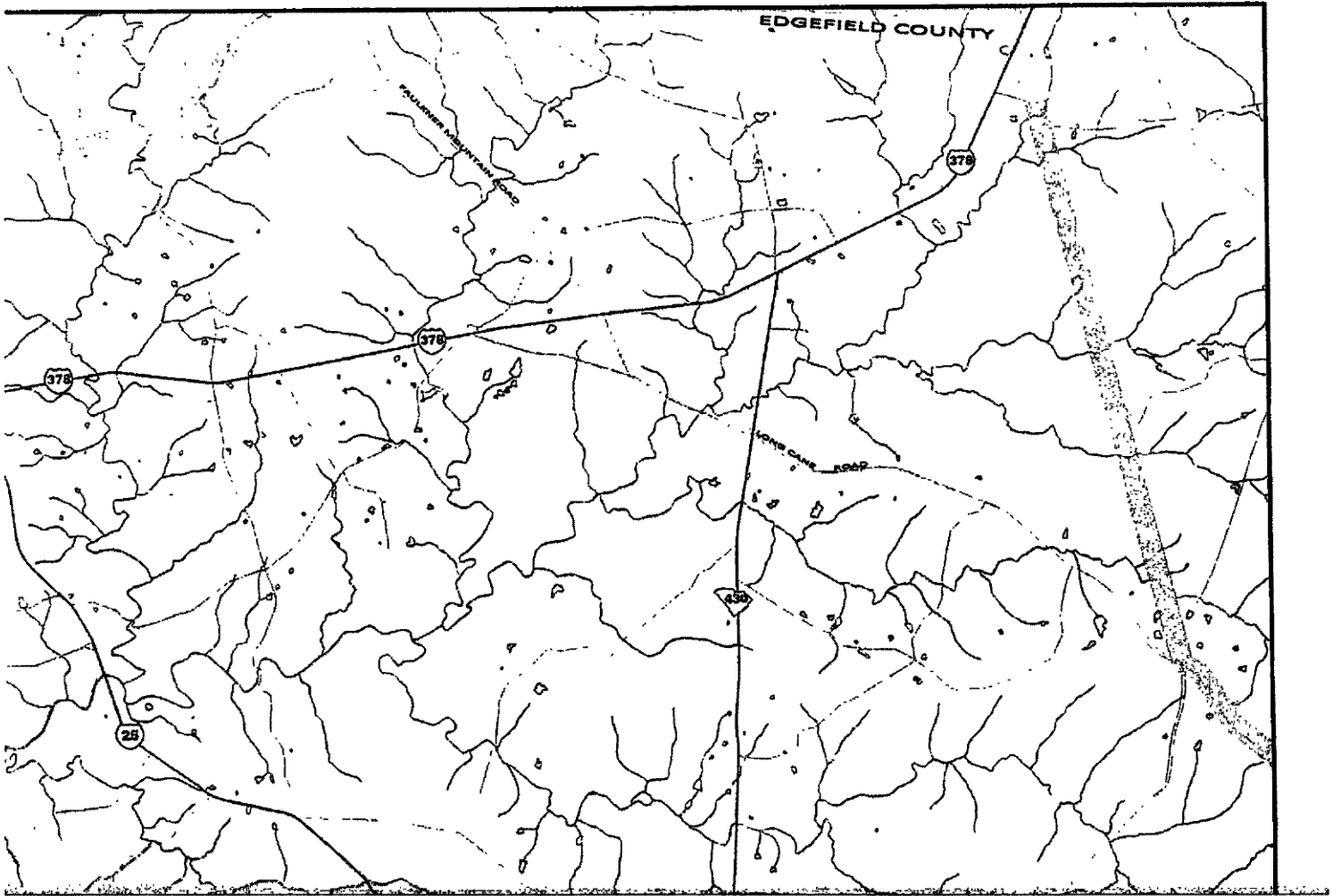
- Area Planning to describe the growth potential of the planning areas & the projected population increase
- Project Planning to determine a service area with the highest population density & establish the current and projected number of homes
- Design criteria to establish water lines sizes
- Water Supply Alternatives – Edgefield, McCormick or community wells
- Capital Cost estimates
- Management Considerations

# North Side Planning Area





# North Side Service Area



# Planning Area vs. Service Area

- There were 169 homes in the planning area
- There were 92 homes in the service area
- The current maximum daily demand would be 36,720 gallons per day. In 20 years, the projected maximum daily demand would be 43,335 gallons per day.



# Line Sizing

- Line sizes were determined using SCDHEC and AWWA standards to provide adequate pressure and fire flow to the services areas
- Line sizes would be 8" and 10" to provide fire protection

## Source Alternatives

- Three water supply alternatives were considered during the course of the study
- Edgefield County Water & Sewer (via HWY 430)
- McCormick County Water (via HWY 378)
- Community Well System – Wells drilled in the North Side area to supply a stand alone distribution system

# Cost Comparison

| Water Supply Source | Demand    | Construction Cost | Non-Construction Cost | Total Cost Estimate |
|---------------------|-----------|-------------------|-----------------------|---------------------|
| ECW&SA              | Fire Flow | \$2,934,990       | \$733,748             | <b>\$3,668,738</b>  |
| McCormick County    | Fire Flow | \$2,871,640       | \$722,910             | <b>\$3,594,550</b>  |

# Customer Costs

| Water Supply Alternatives | Capital Cost | Total Monthly Operating Income | Monthly Charge (1) | Monthly Charge (2) |
|---------------------------|--------------|--------------------------------|--------------------|--------------------|
| ECW&SA – FD               | \$3,668,738  | -\$6,058                       | \$281.90           | \$3.13             |
| McCormick County– FD      | \$3,594,550  | -\$7,683                       | \$293.68           | \$3.26             |

Total Monthly Operating Income = revenue minus O&M expenses minus depreciation  
 Monthly Charge (1) = charge (operating income minus debt service cost) per service area customer  
 Monthly Charge (2) = charge (operating income minus debt service cost) per Authority customer  
 DD = Domestic Demand ; FD = Fire Flow Demand

# Operation and Maintenance

- The previous costs do not include operation and maintenance costs for this new line. It is estimated that annual costs would be between \$100,000 and \$125,000 per year

## Supplying the Whole Northside?

- ECWSA independently investigated servicing water to as many roads as possible in the Northside.
- Including as many roads as possible increased the house count to 213, but also dramatically increased the cost of the project to almost \$10,000,00



## Hurdles in Supplying Water to the NorthSide

### Costs – Who can pay for it?

- ECWSA – The Authority is not in the financial position to extend water to the North Side and/or West Side of the county at this time. Extending this amount of water line would not only place a long term burden on the Authority for capital costs, our O&M costs would rise significantly due to amount of new line we would have to maintain

## Hurdles in Supplying Water to the NorthSide

### Costs – Who can pay for it?

- State Government – There are a few loan programs available through the State, but no grants large enough to begin a project of this size
- Federal Government – Most grants available through the Federal Government require a 45% match. Also, the Authority applied for 5 straight years for earmark funds through Congressman Barrett's office and Sen. Graham's office with no results

**The End**

**TIER II ASSESSMENT REPORT  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, SC  
EDGEFIELD COUNTY  
UST PERMIT NO. 07960**

**Prepared For:**

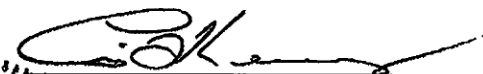
**Wilkerson Fuel Company, Inc.  
PO Box 2835  
Rock Hill, SC 29732**

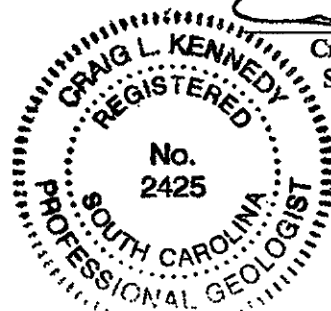
**Prepared By:**

**Environmental Compliance Services, Inc.  
13504 South Point Blvd, Unit F  
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**January 5, 2011**

  
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## **1.0 INTRODUCTION**

### **1.1 Background**

This report presents results of Tier II assessment activities conducted at the former 378 Truck Stop facility (UST permit number 07960) located at 731 Highway 378 in Edgefield, South Carolina (**Figure 1**). Activities were conducted in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive dated August 16, 2010, which included cost agreement number 39645.

The site was not in use at the time of this assessment. An abandoned building was present onsite during our visits associated with the Tier II assessment activities. A concrete slab was located directly to the east of, and abutting, the onsite building.

A release at the site was reported on October 3, 1974 and was confirmed on July 8, 1996. Reportedly, one 550-gallon diesel, one 1,000-gallon gasoline, and one 2,000-gallon gasoline underground storage tanks (USTs) and their associated piping and dispensers were removed from the site on January 1, 1987. The site did not contain USTs at the time of this assessment.

### **1.2 Regional Geology/Hydrogeology**

The sedimentary formations of the Coastal Plain range in age from Late Cretaceous to Recent. They consist, for the most part, of unconsolidated sand, clay, gravel, marl, and limestone which have been deposited on a surface of granite, schist, and gneiss similar to, and a continuation of, the rocks underlying the adjoining Piedmont province. Some coquinas have been silicified to form so-called buhrstones and some clays hardened into siltstones. Considered en masse, the formations of the Coastal Plain may be classified as having a monoclinical or acinal structure, and they rest on rocks of a much older crystalline complex. The unconsolidated rocks occur as wedges of sand, clay, marl, and limestone. Underlying the unconsolidated sediments are "crystalline" rocks consisting of granite, gneiss, schist, and a series of volcanics. Fault troughs or grabens were formed in these pre-Mesozoic rocks during Triassic time, into which were deposited ferruginous and carbonaceous sands and clays. These sediments were subsequently injected by diabase dikes and sills.

### **1.3 Receptor Survey Results**

A receptor survey was conducted within a 1,000 foot radius of the subject site during the May 2010 Tier I assessment activities. The 378 Truck Stop site was located in a predominantly residential area in

Edgefield County (**Figure 1**). Properties directly surrounding the site were open fields. Nearby properties were mainly open fields and residences. A volunteer fire department station was located on the corner of Highway 378 and Faulkner Mountain Road.

Municipal water was not provided to the area. Multiple private water supply wells were identified during the Tier I receptor survey and were subsequently plotted on a site vicinity map. A comprehensive survey which included the private water supply wells, conducted during Tier II assessment activities, resulted in multiple changes to the site vicinity map. The identified water supply wells are listed below along with location information.

| <b>Description of Receptor</b>                         | <b>Receptor Address</b>                      | <b>Distance/Direction from Site</b>  |
|--|--|--------------------------------------|
| Private Water Supply Well (labeled WSW-1)              | 730 Hwy 378 East, Edgefield, SC 29824        | Approximately 205 ft SSE of the site |
| Private Water Supply Well (labeled WSW-2)              | 736 Hwy 378 East, Edgefield, SC 29824        | Approximately 500 ft SSE of the site |
| Private Water Supply Well (labeled WSW-4)              | 752 Hwy 378 East, Edgefield, SC 29824        | Approximately 830 ft SE of the site  |
| Private Water Supply Well (labeled WSW-5)              | 745 Hwy 378, Edgefield, SC 29824             | Approximately 630 ft E of the site   |
| Private Water Supply Well (labeled WSW-6)              | 741 Hwy 378, Edgefield, SC 29824             | Approximately 348 ft E of the site   |
| Private Water Supply Well (labeled WSW-7)              | 719 Hwy 378, Edgefield, SC 29824             | Approximately 455 ft WNW of the site |
| Private Water Supply Well (labeled WSW-8)              | 724 Hwy 378 East, Edgefield, SC 29824        | Approximately 268 ft SW of the site  |
| Private Water Supply Well (labeled WSW-9)              | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 625 ft SW of the site  |
| Private Water Supply Well (labeled WSW-10)             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 470 ft SSW of the site |
| Private Water Supply Well (labeled WSW-11)             | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 545 ft SSW of the site |
| Private Water Supply Well (labeled WSW-12)             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 572 ft SSW of the site |
| Private Water Supply Well (labeled WSW-13)             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 716 ft SSW of the site |
| Private Water Supply Well (labeled WSW-14)             | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 857 ft SSW of the site |
| Private Water Supply Well (labeled WSW-15)             | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | Approximately 990 ft SSW of the site |
| Disconnected Private Water Supply Well (labeled WSW-3) | 744 Hwy 378 East, Edgefield, SC 29824        | Approximately 554 ft ESE of the site |
| Disconnected private water supply well                 | unknown                                      | Approximately 615 ft NNW of the site |
| Disconnected private water supply well                 | 724 Hwy 378 East, Edgefield, SC 29824        | Approximately 444 ft SW of the site  |



|  |                                       |                                     |
|--|---------------------------------------|-------------------------------------|
| Disconnected private water supply well | 730 Hwy 378 East, Edgefield, SC 29824 | Approximately 189 ft S of the site  |
| Disconnected private water supply well | 732 Hwy 378 East, Edgefield, SC 29824 | Approximately 352 ft S of the site  |
| Disconnected private water supply well | 758 Hwy 378 East, Edgefield, SC 29824 | Approximately 678 ft SE of the site |

Underground telephone lines ran along the south side of Highway 378 and turned towards the southwest to the residences located on the south side of Highway 378, as shown in **Figure 3**.

The applicable portion of the Edgefield County Tax Map has been included as **Figure 2**. Property owner's names and addresses of land in the vicinity of the subject site are summarized in **Table 1** and are keyed to **Figure 2**. A scaled Site Plan has been included as **Figure 3**. The Surveyed Map on which **Figure 3** was based has been included as **Appendix F**.

## 2.0 ASSESSMENT INFORMATION

### 2.1 Site specific geology and hydrogeology

The project area was underlain at shallow depths by light brown silt and silty clay. Rock and partially weathered rock were encountered below the silt and clay at varying depths throughout the study area. Partially weathered rock was first encountered at depths ranging from approximately 26 feet (MW-18 and MW-27) to 50 feet (TW-9) across the subject area. Overall, partially weathered rock was first encountered at or below a depth of 30 feet below grade onsite and in locations south of the site. Partially weathered rock was first encountered at more shallow depths in locations west, southwest, and southeast of the site. Rock was first encountered at depths ranging from approximately 30 feet (MW-8) to 68 feet (TW-3) across the subject area. The depths to rock observed during shallow monitoring well installation varied from approximately 30 feet to 39 feet below grade. Overall, rock was encountered a bit deeper onsite and south of the site as compared to other areas (north, east, west, southwest, and southeast). Depths to rock were observed at shallower depths (between 32 feet and 35 feet below grade) during telescoping well installation in areas southwest and southeast of the site, as compared to telescoping wells installed onsite and in areas south of the site. The largest discrepancy was observed at telescoping well TW-3, located southwest of the site, where rock was not encountered until a depth of 68 feet below grade.

The percentages of gravel, sand, and silt/clay in a soil sample collected during Tier I well installation activities from monitoring well MW-3 at a depth of 40 feet below grade were 10.0%, 39.8%, and 50.1%, respectively. The percentages of gravel, sand, silt, and clay in a soil sample collected during Tier II well

installation activities from MW-12 at a depth of 30 feet below grade were 4.1%, 27.5%, 50.7%, and 17.7%, respectively. A soil sample was proposed for collection during installation of monitoring well TW-5 at a depth within the well's screened interval. This sample was subsequently collected at a depth of 55 feet below grade. Following discussions with SCDHEC, the sample was not submitted for laboratory grain size analysis, as this sample consisted mainly of pulverized rock particles from the well drilling process.

Depths to groundwater were measured in wells MW-1 through MW-19 and TW-1 through TW-8 on October 18, 2010. Depths to groundwater measured in the shallow monitoring wells ranged from 22.02 feet (MW-18) to 30.79 feet (MW-16). Water table elevations in the shallow monitoring wells ranged from 64.52 feet (MW-9) to 75.47 feet (MW-1) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. Additional monitoring wells were installed on November 29 through December 3, 2010 and were subsequently gauged on December 6, 2010. Depths to groundwater measured in these additional shallow monitoring wells ranged from 28.48 feet (MW-27) to 41.77 feet (MW-20). Well MW-20 was installed with a three foot stickup riser. However, when this three foot difference was considered, well MW-20 still showed the deepest water table reading of the wells gauged on December 6, 2010. Water table elevations in the additional shallow monitoring wells ranged from 66.83 feet (MW-24) to 70.75 feet (MW-23) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. The shallow groundwater elevations obtained in October 2010 were contoured to develop a groundwater flow map. Due to a significant change in water table elevations between October and December, the data obtained in December 2010 could not be integrated into this map. Based on the October 2010 shallow monitoring well data, groundwater flow in the surficial aquifer was generally toward the south, southwest, and northeast. The horizontal hydraulic gradients were approximately 0.009 feet per foot (ft/ft) towards the south from well MW-3 to well MW-16, 0.031 ft/ft towards the southwest from well MW-1 to well MW-9, and 0.014 ft/ft towards the northeast from well MW-1 to well MW-5. The Groundwater Elevation Map with posted October and December 2010 shallow monitoring well data and contoured October 2010 data has been included as **Figure 4**. A summary of groundwater elevation data has been presented in **Table 3**.

Depths to groundwater measured on October 18, 2010 in the telescoping monitoring wells ranged from 25.39 feet (TW-3) to 50.90 feet (TW-7). Water table elevations in the telescoping monitoring wells ranged from 47.23 feet (TW-7) to 73.93 feet (TW-5) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. However, based on the range of the telescoping

well groundwater elevations, it is possible that the water table was not stabilized at the time of measurement. It is also possible that the source of groundwater in some of the telescoping wells may have been from rock fractures and the measured depths to water did not represent the true water table. Subsequent gauging data may help determine the reason for this potential discrepancy. Additional monitoring wells were installed on November 29 through December 3, 2010 and were subsequently gauged on December 6, 2010. The depth to groundwater measured in additional telescoping monitoring well TW-9 was 28.96 feet and the water table elevation was 67.96 feet relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. The deep groundwater elevations obtained in October 2010 were contoured to develop a groundwater flow map. Due to a significant change in water table elevations between October and December, the data obtained in December 2010 could not be integrated into this map. Based on the October 2010 telescoping monitoring well data, groundwater flow in the deep aquifer was generally toward the southwest and east. The horizontal hydraulic gradients were approximately 0.043 ft/ft towards the southwest from well TW-1 to well TW-4 and 0.131 ft/ft towards the east from well TW-5 to well TW-7. The Groundwater Elevation Map with posted October and December 2010 telescoping monitoring well data and contoured October 2010 data has been included as **Figure 5**. A summary of groundwater elevation data has been presented in **Table 3**.

Slug tests were performed on monitoring wells MW-2 and MW-3 during Tier I assessment activities conducted in May 2010. Calculated hydraulic conductivities ranged from 0.1091 feet/day to 0.1778 feet/day. Slug tests were performed on monitoring wells MW-12 and MW-17 during Tier II assessment activities. The hydraulic conductivities estimated from the slug tests were 0.5359 feet per day (MW-12) and 0.2019 feet per day (MW-17). Raw data and graphs from the slug tests conducted during the Tier II assessment activities have been included as **Appendix G**.

## **2.2 Monitoring Well Installation**

Due to repeated drilling refusal and depth to rock encountered during Tier I assessment activities, groundwater field screening was not conducted prior to well installation during Tier II assessment activities. Therefore, monitoring well locations and termination depths were proposed at onsite and offsite positions in an effort to horizontally and vertically delineate dissolved phase contamination in the groundwater and to serve as compliance points between the site and local private water supply wells. Multiple proposed drilling locations were adjusted in the field for the presence of utilities, trees, buildings, and other obstructions. Drilling and installation of shallow monitoring wells MW-6 through

MW-19 and telescoping monitoring wells TW-1 through TW-8 occurred from October 4 through 15, 2010.

Soil samples were proposed for collection during the installation of shallow monitoring wells MW-6 through MW-8 to continue delineation of the sorbed contamination identified during Tier I assessment activities. Samples were collected every five feet during well installation activities and screened in the field for volatile organic compounds with a Photo-Ionization Detector (PID). The soil sample from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) and naphthalene using EPA Method 8260B. While installing wells MW-12 and MW-13, a petroleum odor was observed in the soil at a depth of 20 feet below grade. Grab samples were collected and screened with a PID. The results were provided to SCDHEC, who requested the samples be submitted for laboratory analysis of BTEX compounds and naphthalene using EPA Method 8260B. The soil laboratory reports are included in **Appendix C** and the data is provided in **Table 2**.

Based on observations from the Tier I well installation activities, shallow wells MW-6 through MW-19, installed during the Tier II assessment, were drilled to 35 feet or 40 feet depending on apparent topographic elevation changes throughout the area. Due to known water table fluctuations (depth to water in the pre-existing wells dropped by approximately 10 feet since the May 2010 Tier I assessment), the shallow wells were installed with 15 foot screen sections to ensure the water table would be bracketed by the screened interval in the future. Each well was monitored for depths to water prior to completion and final depths were determined by these water table measurements. The completed depths of the shallow wells ranged from 35 feet to 40 feet below grade. Telescoping monitoring wells TW-1 through TW-8 were installed and paired with shallow monitoring wells MW-1, MW-3, MW-9, MW-10, MW-12, MW-16, MW-17, and MW-19. Following discussions with SCDHEC, the proposed telescoping well's termination depth of 80 feet was adjusted based on observed depth to rock. Outer casing depths were based on depth to rock and/or the total depth of the telescoping well's shallow well pair to ensure sufficient vertical separation between the two monitoring points. As directed by SCDHEC, inner casings were installed eight feet below the well's outer casing depth. Telescoping wells TW-1 through TW-8 were installed to total depths ranging from 58 feet to 80 feet below grade, and were constructed with five foot screened sections.

Following installation, each well was developed until the purged water was free of sediment or until the well was purged dry. A comprehensive site survey was conducted on October 26, 2010 and a complete site plan was prepared.

Groundwater samples were collected from the monitoring wells and telescoping wells on October 18 and 19, 2010. Following receipt of the groundwater analytical results, SCDHEC directed the installation of additional shallow and telescoping monitoring wells. Nine shallow monitoring wells (MW-20 through MW-28) and one telescoping monitoring well (TW-9) were successfully installed on November 29 through December 3, 2010. Following well installation, each well was developed until the purged water was free of sediment or until the well was purged dry. One additional proposed shallow well could not be installed without removal of trees in a wooded area. Following a discussion with SCDHEC, it was decided that this well could be omitted from this scope of work. An additional telescoping monitoring well (TW-10) was installed to a depth of 80 feet below grade in the proposed location near shallow well MW-24. Two days following installation, this well had produced less than one foot of water. As directed by SCDHEC, groundwater samples were collected from the well and the boring was subsequently abandoned due to insufficient water for well completion.

The completed depths of shallow wells MW-20 through MW-28 ranged from 35 feet to 42 feet below grade, depending on changes in groundwater and topographic elevations. Each shallow monitoring well was installed with a 15 foot screened section. Competent rock was not encountered during installation of telescoping well TW-9. The outer casing was therefore installed to a depth of 72 feet below grade and the inner casing was installed to the proposed depth of 80 feet below grade. Telescoping well TW-9 was installed with a five foot screened section. Rock was encountered at a depth of 35 feet below grade during installation of telescoping well TW-10. Water was not encountered while drilling the inner casing to a depth of 80 feet. Due to insufficient water in the boring, this well was abandoned after a grab groundwater sample was collected.

Well logs developed during completion of the monitoring wells have been included as **Appendix A**. The driller's well construction records for the monitoring wells have been included as **Appendix B**. Soil cuttings and wastewater generated during monitoring well installation and development activities were placed in 55-gallon drums and staged onsite for subsequent transport to a licensed facility for disposal. The disposal manifests are included as **Appendix H**.

On December 9, 2010, a professional surveyor incorporated the newly installed wells into the pre-existing survey. A complete site plan was prepared and is included as **Figure 3**. The Surveyed Map on which **Figure 3** was based has been included as **Appendix F**.

### **2.3 Groundwater Sampling**

A comprehensive groundwater gauging and sampling event was conducted on October 18 and 19, 2010. Samples were collected from monitoring wells MW-2 through MW-19 and TW-1 through TW-8. Samples were also collected from water supply wells WSW-1 through WSW-15. A groundwater sample was not collected from pre-existing monitoring well MW-1 due to the presence of free product.

Additional monitoring wells MW-20 through MW-28 and TW-9 were gauged and sampled on December 6, 2010. A grab sample was also collected from telescoping well TW-10 on December 2, 2010 before it was abandoned.

Each monitoring well was sampled using a new, disposable 1 ½-inch diameter 1-liter capacity PVC bailer attached to a nylon cord. Prior to sample collection, new wells MW-6 through MW-28 and TW-1 through TW-9 were developed and purged by removal of at least three well casing volumes of water, wherever possible. Pre-existing monitoring well MW-2 was also purged prior to sample collection, as the construction of this well was unknown and it could not be verified whether the water table was bracketed by the screened interval. Pre-existing monitoring wells MW-3 through MW-5 were not purged prior to sampling, as the water table in these wells was bracketed by the screened interval of each well. Each water supply well was purged at the sample location for approximately 10 minutes prior to sample collection. Measurements of pH, conductivity, temperature, oxidation reduction potential, turbidity, and dissolved oxygen were recorded prior to purging and after removal of each well casing volume. Field information was transcribed onto SCDHEC Field Sampling Summary Sheets which are included as **Appendix D**.

After collection, the groundwater samples were placed into an iced cooler and delivered to Pace Analytical of Huntersville, NC. Pace analyzed the groundwater samples from wells MW-2 through MW-28 and TW-1 through TW-9 for BTEX compounds, MTBE, naphthalene, 1,2-DCA, and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. The groundwater samples collected from newly installed monitoring wells MW-6 through MW-28 and TW-1 through TW-9 were also analyzed for total lead using EPA Method 6010. The grab sample collected from TW-10 was analyzed for BTEX

compounds, MTBE, naphthalene, 1,2-DCA, and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. There was insufficient water to collect a lead sample from TW-10. Pace analyzed the groundwater samples from water supply wells WSW-1 through WSW-15 for BTEX compounds, MTBE, naphthalene, and 1,2-DCA using EPA Method 8260B and EDB using EPA Method 8011. The laboratory analytical reports have been included in **Appendix E**. Tabular results have been included in **Table 4** and **Table 5**. A map displaying contaminants of concern data has been included as **Figure 6**. A map displaying eight oxygenates data has been included as **Figure 7**.

Purge water generated during groundwater sampling activities was placed in 55-gallon drums and staged onsite for subsequent transport to a licensed facility for disposal. The disposal manifests are included as **Appendix H**.

The October 19, 2010 private water supply well analytical data was forwarded to SCDHEC upon receipt on October 26, 2010. Concentrations of contaminants of concern were reported above laboratory reporting limits in several of the water supply well samples. The water supply wells with concentrations above laboratory reporting limits were re-sampled by SCDHEC to verify the results obtained by ECS. Based on the results, SCDHEC directed ECS to install Granular Activated Carbon (GAC) units on water supply wells WSW-1 and WSW-8. GAC units were installed on water supply wells WSW-1 and WSW-8 on November 18, 2010 and November 12, 2010, respectively. Following installation, pre-GAC and post-GAC groundwater samples were collected. Additional information pertaining to the GAC installations and subsequent sampling can be found in the individual reports associated with these field activities, each dated November 23, 2010.

As directed by SCDHEC, ECS collected groundwater samples from water supply wells WSW-2 through WSW-4, WSW-6, WSW-7, WSW-9 through WSW-12, and WSW-15 for analysis of eight oxygenates using EPA Method 8260B on December 8, 2010 to complete the well's data sets. Samples were not collected from water supply wells WSW-1 and WSW-8, as eight oxygenates data had been obtained during the GAC installation sampling. Samples were not collected from water supply wells WSW-13 and WSW-14, as eight oxygenates data had been obtained from these wells during the verification sampling conducted by SCDHEC. A groundwater sample could not be collected from water supply well WSW-5 for analysis of eight oxygenates on December 8, 2010, as the well pump had been disconnected but not removed from the well. A sign in front of the residence indicated that the home was for sale. Due to unseasonably cold temperatures, multiple sample locations were frozen on the day of sampling. A sample

was collected from water supply well WSW-2 after plumbers cut open frozen pipes for repairs. Sufficient water was obtained from the broken pipes for sample collection. A sample was collected from indoor plumbing from water supply well WSW-9 due to frozen outdoor piping. Samples were collected from wells WSW-11, WSW-12, and WSW-15 at spigots attached to the respective homes, as the sample ports on the holding tanks were frozen. The laboratory analytical report from the eight oxygenates sampling has been included in **Appendix E**. Tabular results have been included in **Table 5**. A map displaying eight oxygenates data has been included as **Figure 7**.

## 2.4 Groundwater Quality

### Contaminants of Concern

Concentrations of benzene were reported above the SCDHEC May 2001 Risk Based Screening Level (RBSL) in the groundwater samples collected from monitoring wells MW-3 through MW-5, MW-7, MW-12, MW-13, MW-16, and MW-22. Concentrations of toluene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-12 and MW-22. Concentrations of ethylbenzene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3 and MW-22. A concentration of total xylenes was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of naphthalene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-5, MW-12, and MW-22. Concentrations of 1,2 DCA were reported above the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-12, MW-13, MW-22, MW-24, MW-27, TW-1, and TW-6, and water supply well WSW-8 (pre-GAC installation). Concentrations of EDB were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-12, and MW-22. A concentration of total lead was reported above the RBSL in the groundwater sample collected from monitoring well MW-22.

Concentrations of benzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-2 and TW-6. Concentrations of toluene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-13, MW-16, TW-2, and TW-7. Concentrations of ethylbenzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-5, MW-7, MW-12 through MW-14, and MW-16. Concentrations of total xylenes were reported below the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-7, MW-12 through MW-14, MW-16, TW-2, and TW-7. Concentrations of MTBE were reported below the RBSL in the groundwater samples collected from monitoring wells MW-3



through MW-6, TW-1, and TW-4, and water supply wells WSW-8 (pre-GAC installation), WSW-13, and WSW-14. Concentrations of naphthalene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4 and MW-13, and abandoned telescoping monitoring well TW-10. Concentrations of 1,2 DCA were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-6, MW-7, MW-11, MW-15, MW-16, TW-2, and TW-5, and water supply well WSW-1 (pre-GAC installation). A concentration of EDB was reported below the RBSL in the groundwater sample collected from monitoring well MW-13. A concentration of total lead was reported below the RBSL in the groundwater sample collected from monitoring well MW-17.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-8 through MW-10, MW-18 through MW-21, MW-23, MW-25, MW-26, MW-28, TW-3, TW-8, and TW-9, and water supply wells WSW-2 through WSW-7, WSW-9 through WSW-12, and WSW-15.

#### Eight Oxygenates

Concentrations of TAA were reported above the SCDHEC 2008 Action Level in the groundwater samples collected from monitoring wells MW-3, MW-12, MW-13, MW-16, MW-22, and TW-1, and water supply well WSW-8 (pre-GAC installation).

A concentration of DIPE was reported below the Action Level in the groundwater sample collected from monitoring well MW-3. Concentrations of TBA were reported below the Action Level in the groundwater samples collected from monitoring wells MW-2, MW-3, and MW-12. Concentrations of TAA were reported below the Action Level in the groundwater samples collected from monitoring wells MW-4 through MW-6, and TW-2.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-7 through MW-11, MW-14, MW-15, MW-17 through MW-21, MW-23 through MW-28, and TW-3 through TW-9, abandoned telescoping monitoring well TW-10, and water supply wells WSW-1 through WSW-4, WSW-6, WSW-7, WSW-9 through WSW-12, and WSW-15.

A summary of the Chemicals of Concern (CoC) data has been included as **Table 4**. A summary of the oxygenate data has been included as **Table 5**. A groundwater quality map showing the contaminants of

concern based on the October through December 2010 data has been included as **Figure 6**. A groundwater quality map showing the eight oxygenates based on the October through December 2010 data has been included as **Figure 7**. Groundwater sampling field data sheets from the October and December 2010 sampling events have been included as **Appendix D**. Complete reports of laboratory analyses of groundwater samples collected during the October and December 2010 sampling events, along with chain-of-custody documentation, have been included in **Appendix E**. The disposal manifests are included as **Appendix H**.

### **3.0 CONCLUSIONS AND RECOMMENDATIONS**

Based on the findings of the Tier II assessment at the 378 Truck Stop site, the following conclusions and recommendations are presented:

- Multiple private water supply wells were identified within 1,000 feet of the site and a few were found to be impacted. Due to the potential for concentration fluctuations over time, and because municipal water is not currently available in the area, groundwater from the water supply wells should be closely monitored to protect human health.
- The monitoring wells installed during this Tier II assessment appear to have delineated the dissolved phase contamination. Contaminants of concern seem to be moving primarily towards the south, which is in agreement with the estimated shallow groundwater flow direction. However, some water may be moving with rock fractures. Fracture analysis may be warranted in the future to better understand groundwater flow in the area, particularly in the deeper wells.
- Additional assessment may be required at the residence located across the street from the subject site (730 Highway 378). Dissolved concentrations reported in the groundwater samples collected from shallow monitoring well MW-22 were the highest of any well associated with the monitoring network.
- Remedial efforts in the form of Aggressive Fluid/Vapor Recovery (AFVR) events are recommended to reduce dissolved concentrations in groundwater while a more comprehensive remedial strategy is developed for the site that is protective of human health.

### **4.0 LIMITATIONS**

This report has been prepared for the exclusive use of Wilkerson Fuel Company, Inc. for specific application to the referenced site in Edgefield, South Carolina. The assessment was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology

and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

## **TABLES**

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**TABLE I**  
**SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES<sup>1</sup>**  
**378 TRUCK STOP**

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-6, MW 21, TW-1, TW-2                         | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | WSW-6 & Disconnected WSW       | MW-7, MW-8, MW-20, MW-27, MW-28                              | Wooded Area around site; WSW-6 tag info. Date: 9/14/00, Depth: 400 ft.                                |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | no WSWs identified             | -  | -   |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | 21st Mortgage Corporation                    | 620 Market Street #100, Knoxville TN 37902   | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft; well was disconnected from power during 12/8/10 visit   |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | -  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-18  | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7         | WSW-1 tag info: Date: 12/91, Depth 280 ft   |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-19 and TW-8   | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16, MW-25, TW-6   | -   |
| 109-00-01-004-000     | JG and JP Owdom                              | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | MW-26 and TW-9   | -   |
| 109-00-01-006-000     | Ulysess Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | no WSWs identified             | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12 and WSW-13              | -  | -   |
| 109-00-01-010-000     | Luther Mitchell Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Benne Culbreath                              | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10, MW-24, TW-4, abandoned TW-10                          | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 724 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

Notes:

1 Adjacent/adjoining properties are keyed into Figure 2.

**TABLE 2**  
**SUMMARY OF SOIL ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Sample ID          | Date    | Depth (feet) | PID Reading (ppm) | Benzene (mg/kg)      | Toluene (mg/kg)       | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Naphthalene (mg/kg) |
|--------------------|---------|--------------|-------------------|----------------------|-----------------------|----------------------|-----------------|---------------------|
| MW-6 <sup>1</sup>  | 10/5/10 | 5            | 1.5               | <0.0055 <sup>2</sup> | <0.0055               | <0.0055              | <0.0166         | <0.0055             |
| MW-7 <sup>1</sup>  | 10/4/10 | 10           | 387               | <0.0447              | 0.0346 J <sup>3</sup> | 0.0314 J             | 0.1867          | 0.0258 J            |
| MW-8 <sup>1</sup>  | 10/6/10 | 20           | 0.3               | <0.0055              | <0.0055               | <0.0055              | <0.0165         | <0.0055             |
| MW-12 <sup>4</sup> | 10/7/10 | 20           | 156               | <0.0053              | <0.0053               | <0.0053              | <0.0159         | 0.0016 J            |
| MW-13 <sup>4</sup> | 10/5/10 | 20           | 92.3              | <0.0047              | <0.0047               | <0.0047              | <0.0141         | <0.0047             |
|                    |         |              | RBSL <sup>5</sup> | 0.0007               | 1.450                 | 1.150                | 14.500          | 0.036               |

Notes:

1. Soil samples collected every 5 vertical ft during installation of shallow groundwater monitoring wells. Sample depth from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis.
2. Less than the laboratory reporting limit.
3. Estimated value between the method detection limit and laboratory reporting limit.
4. Soil samples collected during installation of shallow groundwater monitoring wells due to observed odor and subsequent PID readings.
5. May 2001 SCDHEC Risk Based Screening Level for sandy soils.

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATION DATA <sup>1</sup>**  
**378 TRUCK STOP**

| Well ID            | Date Measured         | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|--------------------|-----------------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-1               | 5/25/10 <sup>3</sup>  | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|                    | 10/18/10 <sup>4</sup> | 101.98                       | 26.50                      | 26.54                      | 0.04                        | 75.47                                    |                 |                        |
| MW-2               | 5/25/10               | 101.02                       | --                         | 16.82                      | --                          | 84.20                                    | 41.72           | unknown                |
|                    | 10/18/10              | 100.99                       | --                         | 27.10                      | --                          | 73.89                                    |                 |                        |
| MW-3               | 5/25/10               | 101.46                       | --                         | 17.28                      | --                          | 84.18                                    | 40              | 10-40                  |
|                    | 10/18/10              | 101.54                       | --                         | 27.58                      | --                          | 73.96                                    |                 |                        |
| MW-4               | 5/25/10               | 100.50                       | --                         | 16.35                      | --                          | 84.15                                    | 40              | 10-40                  |
|                    | 10/18/10              | 100.48                       | --                         | 26.20                      | --                          | 74.28                                    |                 |                        |
| MW-5               | 5/25/10               | 104.21                       | --                         | 27.30                      | --                          | 76.91                                    | 40              | 20-40                  |
|                    | 10/18/10              | 104.18                       | --                         | 30.24                      | --                          | 73.94                                    |                 |                        |
| MW-6               | 10/18/10              | 102.25                       | --                         | 28.01                      | --                          | 74.24                                    | 35.05           | 20.05-35.05            |
| MW-7               | 10/18/10              | 99.72                        | --                         | 25.10                      | --                          | 74.62                                    | 34.92           | 19.92-34.92            |
| MW-8               | 10/18/10              | 99.92                        | --                         | 25.45                      | --                          | 74.47                                    | 35.08           | 20.08-35.08            |
| MW-9               | 10/18/10              | 94.83                        | --                         | 30.31                      | --                          | 64.52                                    | 35.17           | 20.17-35.17            |
| MW-10              | 10/18/10              | 99.12                        | --                         | 29.73                      | --                          | 69.39                                    | 40.16           | 25.16-40.16            |
| MW-11              | 10/18/10              | 102.61                       | --                         | 28.75                      | --                          | 73.86                                    | 35.23           | 20.23-35.23            |
| MW-12              | 10/18/10              | 103.46                       | --                         | 29.63                      | --                          | 73.83                                    | 34.99           | 19.99-34.99            |
| MW-13              | 10/18/10              | 101.48                       | --                         | 27.63                      | --                          | 73.85                                    | 40.19           | 25.19-40.19            |
| MW-14              | 10/18/10              | 103.48                       | --                         | 29.99                      | --                          | 73.49                                    | 39.74           | 24.74-39.74            |
| MW-15              | 10/18/10              | 103.16                       | --                         | 30.32                      | --                          | 72.84                                    | 40.13           | 25.13-40.13            |
| MW-16              | 10/18/10              | 101.32                       | --                         | 30.79                      | --                          | 70.53                                    | 40.11           | 25.11-40.11            |
| MW-17              | 10/18/10              | 98.40                        | --                         | 23.74                      | --                          | 74.66                                    | 35.02           | 20.02-35.02            |
| MW-18              | 10/18/10              | 95.05                        | --                         | 22.02                      | --                          | 73.03                                    | 35.67           | 20.67-35.67            |
| MW-19              | 10/18/10              | 101.07                       | --                         | 27.62                      | --                          | 73.45                                    | 38.57           | 23.57-38.57            |
| MW-20 <sup>5</sup> | 12/6/10               | 110.52                       | --                         | 41.77                      | --                          | 68.75                                    | 45.05           | 30.05-45.05            |
| MW-21              | 12/6/10               | 101.70                       | --                         | 32.66                      | --                          | 69.04                                    | 40.16           | 25.16-40.16            |
| MW-22              | 12/6/10               | 105.13                       | --                         | 34.95                      | --                          | 70.18                                    | 40.09           | 25.09-40.09            |
| MW-23              | 12/6/10               | 100.01                       | --                         | 29.26                      | --                          | 70.75                                    | 37.24           | 22.24-37.24            |
| MW-24              | 12/6/10               | 99.08                        | --                         | 32.25                      | --                          | 66.83                                    | 40.13           | 25.13-40.13            |
| MW-25              | 12/6/10               | 101.54                       | --                         | 32.00                      | --                          | 69.54                                    | 39.98           | 24.98-39.98            |
| MW-26              | 12/6/10               | 97.25                        | --                         | 29.08                      | --                          | 68.17                                    | 38.74           | 23.74-38.74            |
| MW-27              | 12/6/10               | 97.20                        | --                         | 28.48                      | --                          | 68.72                                    | 35.10           | 20.10-35.10            |
| MW-28              | 12/6/10               | 101.29                       | --                         | 33.39                      | --                          | 67.90                                    | 40.03           | 25.03-40.03            |
| TW-1               | 10/18/10              | 101.83                       | --                         | 28.44                      | --                          | 73.39                                    | 63.27           | 58.27-63.27            |
| TW-2               | 10/18/10              | 101.97                       | --                         | 29.57                      | --                          | 72.40                                    | 80.23           | 75.23-80.23            |
| TW-3               | 10/18/10              | 95.33                        | --                         | 25.39                      | --                          | 69.94                                    | 80.62           | 75.62-80.62            |
| TW-4               | 10/18/10              | 99.23                        | --                         | 43.13                      | --                          | 56.10                                    | 68.56           | 63.56-68.56            |
| TW-5               | 10/18/10              | 103.62                       | --                         | 29.69                      | --                          | 73.93                                    | 58.38           | 53.38-58.38            |
| TW-6               | 10/18/10              | 101.29                       | --                         | 31.22                      | --                          | 70.07                                    | 58.55           | 53.55-58.55            |
| TW-7               | 10/18/10              | 98.13                        | --                         | 50.90                      | --                          | 47.23                                    | 58.94           | 53.94-58.94            |

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATION DATA <sup>1</sup>**  
**378 TRUCK STOP**

| <b>Well ID</b> | <b>Date Measured</b> | <b>Top of Casing Elevation (ft)</b> | <b>Depth to Free Product (ft)</b> | <b>Depth to Ground-water (ft)</b> | <b>Free Product Thickness (ft)</b> | <b>Ground-water Elevation<sup>2</sup> (ft)</b> | <b>Well Depth (ft)</b> | <b>Screened Interval (ft)</b> |
|----------------|----------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|--|------------------------|-------------------------------|
| TW-8           | 10/18/10             | 101.03                              | --                                | 28.18                             | --                                 | 72.85  | 58.53                  | 53.53-58.53                   |
| TW-9           | 12/6/10              | 96.92                               | --                                | 28.96                             | --                                 | 67.96  | 80.12                  | 75.12-80.12                   |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.



**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|--------------------|-------------------|----------------------|----------------------|-------------|--------------------|-----------------|------------|-------------------|
| MW-1    | 5/25/10     | Free Product       |                   |                      |                      |             |                    |                 |            |                   |
|         | 10/18/10    | Free Product       |                   |                      |                      |             |                    |                 |            |                   |
| MW-2    | 5/25/10     | 109 <sup>2</sup>   | <5.0 <sup>3</sup> | 114                  | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035      | NR                |
|         | 10/19/10    | 1.7 J <sup>5</sup> | <5.0              | <5.0                 | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020     | NR                |
| MW-3    | 5/25/10     | 239                | 139               | 815                  | 4,800                | <5.0        | 285                | 126             | 0.099      | 28.9              |
|         | 10/18/10    | 6,820              | 343               | 981                  | 6,260                | 3.4 J       | 449                | 561             | 0.31       | NR                |
| MW-4    | 5/25/10     | 2.9 J              | <5.0              | 1.4 J                | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020     | 62.8              |
|         | 10/18/10    | 5.7                | <5.0              | <5.0                 | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020     | NR                |
| MW-5    | 5/25/10     | 3.6 J              | 1.8 J             | 4.0 J                | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020     | 11.8              |
|         | 10/18/10    | 102                | <5.0              | 4.1 J                | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020     | NR                |
| MW-6    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020     | <5.0              |
| MW-7    | 10/19/10    | 12.9               | 4.6 J             | 3.2 J                | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40       | <5.0              |
| MW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-9    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-10   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| MW-11   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 1.3 J           | <0.020     | <5.0              |
| MW-12   | 10/19/10    | 387                | 1,210             | 120                  | 2,650                | <5.0        | 187                | 24.7            | 4.8        | <5.0              |
| MW-13   | 10/19/10    | 333                | 109               | 58.3                 | 282                  | <10.0       | 10.1               | 61.9            | 0.022      | <5.0              |
| MW-14   | 10/19/10    | <5.0               | <5.0              | 2.5 J                | 9.5 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-15   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 3.0 J           | <0.020     | <5.0              |
| MW-16   | 10/19/10    | 246                | 26.1              | 14.3                 | 229.2                | <5.0        | <5.0               | 2.5 J           | <0.020     | <5.0              |
| MW-17   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | 4.3 J             |
| MW-18   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| MW-19   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-20   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-21   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-22   | 12/6/10     | 11,900             | 29,500            | 1,800                | 11,400               | <100        | 522                | 463             | 122        | 15.3              |
| MW-23   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-24   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 6.7             | <0.020     | <5.0              |
| MW-25   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-26   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-27   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 6.4             | <0.020     | <5.0              |
| MW-28   | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-1    | 10/18/10    | <5.0               | <5.0              | <5.0                 | <15.0                | 5.7         | <5.0               | 64.2            | <0.020     | <5.0              |
| TW-2    | 10/19/10    | <5.0               | 3.4 J             | <5.0                 | 2.8 J                | <5.0        | <5.0               | 4.2 J           | <0.020     | <5.0              |
| TW-3    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-4    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | 2.9 J       | <5.0               | <5.0            | <0.019     | <5.0              |
| TW-5    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 1.7 J           | <0.020     | <5.0              |
| TW-6    | 10/19/10    | 1.5 J              | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 5.1             | <0.020     | <5.0              |
| TW-7    | 10/19/10    | <5.0               | 1.9 J             | <5.0                 | 5.6 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| TW-9    | 12/6/10     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |

**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA <sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID                    | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|----------------------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-10 <sup>6</sup>         | 12/2/10           | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | 2.9 J              | <5.0           | <0.020     | NR                |
| WSW-1                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     | NR                |
| WSW-1 pre GAC <sup>7</sup> | 11/18/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019     | NR                |
| WSW-1 post GAC             | 11/18/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-2                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-3                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-4                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-5                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-6                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-7                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-8                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 3.6 J       | <5.0               | <b>9.2</b>     | <0.020     | NR                |
| WSW-8 pre GAC <sup>8</sup> | 11/12/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <b>7.5</b>     | <0.020     | NR                |
| WSW-8 post GAC             | 11/12/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-9                      | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-10                     | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-11                     | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-12                     | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-13                     | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     | NR                |
| WSW-14                     | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     | NR                |
| WSW-15                     | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                            | RBSL <sup>9</sup> | 5              | 1,000          | 700                  | 10,000               | 40          | 25                 | 5              | 0.05       | 15                |

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
7. WSW-1 GAC installed on 11/18/10.
8. WSW-8 GAC installed on 11/12/10.
9. May 2001 Risk-Based Screening Level.

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID            | Date Sampled | Ethanol (ug/L)    | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert- Amyl Alcohol (TAA) (ug/L) | tert- Butyl Formate (TBF) (ug/L) |
|--------------------|--------------|-------------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|----------------------------------|
| MW-1               | 10/18/10     | Free Product      |                                      |                                  |                                |                                     |                                      |                                 |                                  |
| MW-2               | 10/19/10     | <200 <sup>2</sup> | <10.0                                | <5.0                             | <100                           | 254                                 | <10.0                                | <100                            | <50.0                            |
| MW-3               | 10/18/10     | <200              | <10.0                                | 55.7                             | <100                           | 773                                 | <10.0                                | 12,900 <sup>3</sup>             | <50.0                            |
| MW-4               | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 199                             | <50.0                            |
| MW-5               | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 168                             | <50.0                            |
| MW-6               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 131                             | <50.0                            |
| MW-7               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-8               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-9               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-10              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-11              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-12              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | 83.0 J <sup>4</sup>                 | <10.0                                | 267                             | <50.0                            |
| MW-13              | 10/19/10     | <400              | <20.0                                | <10.0                            | <200                           | <200                                | <20.0                                | 1,260                           | <100                             |
| MW-14              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-15              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-16              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 360                             | <50.0                            |
| MW-17              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-18              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-19              | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-20              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-21              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-22              | 12/6/10      | <4,000            | <200                                 | <100                             | <2,000                         | <2,000                              | <200                                 | 9,730                           | <1,000                           |
| MW-23              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-24              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-25              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-26              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-27              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-28              | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-1               | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 1,180                           | <50.0                            |
| TW-2               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 95.4 J                          | <50.0                            |
| TW-3               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-4               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-5               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-6               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-7               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-8               | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-9               | 12/6/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-10 <sup>5</sup> | 12/2/10      | <200              | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured         | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|-----------------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-1    | 5/25/10 <sup>3</sup>  | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|         | 10/18/10 <sup>4</sup> | 101.98                       | 26.50                      | 26.54                      | 0.04                        | 75.47                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 21.70                      | --                          | 80.28                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.17                      | --                          | 70.81                                    |                 |                        |
| MW-2    | 5/25/10               | 101.02                       | --                         | 16.82                      | --                          | 84.20                                    | 41.72           | unknown                |
|         | 10/18/10              | 100.99                       | --                         | 27.10                      | --                          | 73.89                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 23.34                      | --                          | 77.68                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 30.91                      | --                          | 70.08                                    |                 |                        |
| MW-3    | 5/25/10               | 101.46                       | --                         | 17.28                      | --                          | 84.18                                    | 40              | 10-40                  |
|         | 10/18/10              | 101.54                       | --                         | 27.58                      | --                          | 73.96                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 23.78                      | --                          | 77.76                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.38                      | --                          | 70.16                                    |                 |                        |
| MW-4    | 5/25/10               | 100.50                       | --                         | 16.35                      | --                          | 84.15                                    | 40              | 10-40                  |
|         | 10/18/10              | 100.48                       | --                         | 26.20                      | --                          | 74.28                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 22.12                      | --                          | 78.36                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 29.92                      | --                          | 70.56                                    |                 |                        |
| MW-5    | 5/25/10               | 104.21                       | --                         | 27.30                      | --                          | 76.91                                    | 40              | 20-40                  |
|         | 10/18/10              | 104.18                       | --                         | 30.24                      | --                          | 73.94                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 27.63                      | --                          | 76.55                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 34.18                      | --                          | 70.00                                    |                 |                        |
| MW-6    | 10/18/10              | 102.25                       | --                         | 28.01                      | --                          | 74.24                                    | 35.05           | 20.05-35.05            |
|         | 4/19/11               |                              | --                         | 23.06                      | --                          | 79.19                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 32.01                      | --                          | 70.24                                    |                 |                        |
| MW-7    | 10/18/10              | 99.72                        | --                         | 25.10                      | --                          | 74.62                                    | 34.92           | 19.92-34.92            |
|         | 4/19/11               |                              | --                         | 21.04                      | --                          | 78.68                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 25.83                      | --                          | 73.89                                    |                 |                        |
| MW-8    | 10/18/10              | 99.92                        | --                         | 25.45                      | --                          | 74.47                                    | 35.08           | 20.08-35.08            |
|         | 4/19/11               |                              | --                         | 22.51                      | --                          | 77.41                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 28.62                      | --                          | 71.30                                    |                 |                        |
| MW-9    | 10/18/10              | 94.83                        | --                         | 30.31                      | --                          | 64.52                                    | 35.17           | 20.17-35.17            |
|         | 4/19/11               |                              | --                         | 24.13                      | --                          | 70.70                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 28.08                      | --                          | 66.75                                    |                 |                        |
| MW-10   | 10/18/10              | 99.12                        | --                         | 29.73                      | --                          | 69.39                                    | 40.16           | 25.16-40.16            |
|         | 4/19/11               |                              | --                         | 26.18                      | --                          | 72.94                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.51                      | --                          | 67.61                                    |                 |                        |
| MW-11   | 10/18/10              | 102.61                       | --                         | 28.75                      | --                          | 73.86                                    | 35.23           | 20.23-35.23            |
|         | 4/19/11               |                              | --                         | 25.59                      | --                          | 77.02                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 32.42                      | --                          | 70.19                                    |                 |                        |
| MW-12   | 10/18/10              | 103.46                       | --                         | 29.63                      | --                          | 73.83                                    | 34.99           | 19.99-34.99            |
|         | 4/19/11               |                              | --                         | 26.11                      | --                          | 77.35                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 33.56                      | --                          | 69.90                                    |                 |                        |
| MW-13   | 10/18/10              | 101.48                       | --                         | 27.63                      | --                          | 73.85                                    | 40.19           | 25.19-40.19            |
|         | 4/19/11               |                              | --                         | 23.50                      | --                          | 77.98                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 31.34                      | --                          | 70.14                                    |                 |                        |
| MW-14   | 10/18/10              | 103.48                       | --                         | 29.99                      | --                          | 73.49                                    | 39.74           | 24.74-39.74            |
|         | 4/19/11               |                              | --                         | 28.52                      | --                          | 74.96                                    |                 |                        |
|         | 8/29/11               |                              | --                         | 34.59                      | --                          | 68.89                                    |                 |                        |

*GW fell 11 feet from May to Oct. 2010 see Still 2010 Product.*

*FP zone water level fell 2.16' since May 2009*

**TABLE 4  
SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>  
378 TRUCK STOP**

| Well ID            | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|--------------------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-15              | 10/18/10      | 103.16                       | --                         | 30.32                      | --                          | 72.84                                    | 40.13           | 25.13-40.13            |
|                    | 4/19/11       |                              | --                         | 25.18                      | --                          | 77.98                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 33.50                      | --                          | 69.66                                    |                 |                        |
| MW-16              | 10/18/10      | 101.32                       | --                         | 30.79                      | --                          | 70.53                                    | 40.11           | 25.11-40.11            |
|                    | 4/19/11       |                              | --                         | 24.59                      | --                          | 76.73                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 32.68                      | --                          | 68.64                                    |                 |                        |
| MW-17              | 10/18/10      | 98.40                        | --                         | 23.74                      | --                          | 74.66                                    | 35.02           | 20.02-35.02            |
|                    | 4/19/11       |                              | --                         | 18.20                      | --                          | 80.20                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 28.55                      | --                          | 69.85                                    |                 |                        |
| MW-18              | 10/18/10      | 95.05                        | --                         | 22.02                      | --                          | 73.03                                    | 35.67           | 20.67-35.67            |
|                    | 4/19/11       |                              | --                         | 15.71                      | --                          | 79.34                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 23.00                      | --                          | 72.05                                    |                 |                        |
| MW-19              | 10/18/10      | 101.07                       | --                         | 27.62                      | --                          | 73.45                                    | 38.57           | 23.57-38.57            |
|                    | 4/19/11       |                              | --                         | 21.63                      | --                          | 79.44                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 30.56                      | --                          | 70.51                                    |                 |                        |
| MW-20 <sup>5</sup> | 12/6/10       | 110.52                       | --                         | 41.77                      | --                          | 68.75                                    | 45.05           | 30.05-45.05            |
|                    | 4/19/11       |                              | --                         | 37.72                      | --                          | 72.80                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 41.27                      | --                          | 69.25                                    |                 |                        |
| MW-21              | 12/6/10       | 101.70                       | --                         | 32.66                      | --                          | 69.04                                    | 40.16           | 25.16-40.16            |
|                    | 4/19/11       |                              | --                         | 24.19                      | --                          | 77.51                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 38.77                      | --                          | 62.93                                    |                 |                        |
| MW-22              | 12/6/10       | 105.13                       | --                         | 34.95                      | --                          | 70.18                                    | 40.09           | 25.09-40.09            |
|                    | 4/19/11       |                              | --                         | 28.56                      | --                          | 76.57                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 35.88                      | --                          | 69.25                                    |                 |                        |
| MW-23              | 12/6/10       | 100.01                       | --                         | 29.26                      | --                          | 70.75                                    | 37.24           | 22.24-37.24            |
|                    | 4/19/11       |                              | --                         | 19.69                      | --                          | 80.32                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.01                      | --                          | 71.00                                    |                 |                        |
| MW-24              | 12/6/10       | 99.08                        | --                         | 32.25                      | --                          | 66.83                                    | 40.13           | 25.13-40.13            |
|                    | 4/19/11       |                              | --                         | 25.58                      | --                          | 73.50                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 31.62                      | --                          | 67.46                                    |                 |                        |
| MW-25              | 12/6/10       | 101.54                       | --                         | 32.00                      | --                          | 69.54                                    | 39.98           | 24.98-39.98            |
|                    | 4/19/11       |                              | --                         | 23.44                      | --                          | 78.10                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 32.18                      | --                          | 69.36                                    |                 |                        |
| MW-26              | 12/6/10       | 97.25                        | --                         | 29.08                      | --                          | 68.17                                    | 38.74           | 23.74-38.74            |
|                    | 4/19/11       |                              | --                         | 21.07                      | --                          | 76.18                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.08                      | --                          | 68.17                                    |                 |                        |
| MW-27              | 12/6/10       | 97.20                        | --                         | 28.48                      | --                          | 68.72                                    | 35.1            | 20.10-35.10            |
|                    | 4/19/11       |                              | --                         | 24.42                      | --                          | 72.78                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.24                      | --                          | 67.96                                    |                 |                        |
| MW-28              | 12/6/10       | 101.29                       | --                         | 33.39                      | --                          | 67.90                                    | 40.03           | 25.03-40.03            |
|                    | 4/19/11       |                              | --                         | 20.91                      | --                          | 80.38                                    |                 |                        |
|                    | 8/29/11       |                              | --                         | 29.92                      | --                          | 71.37                                    |                 |                        |

*No FPD on 8/29/11*

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Groundwater (ft) | Free Product Thickness (ft) | Groundwater Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|---------------|------------------------------|----------------------------|---------------------------|-----------------------------|---|-----------------|------------------------|
| TW-1    | 10/18/10      | 101.83                       | --                         | 28.44                     | --                          | 73.39                                   | 63.27           | 58.27-63.27            |
|         | 4/19/11       |                              | --                         | 25.53                     | --                          | 76.30                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 32.26                     | --                          | 69.57                                   |                 |                        |
| TW-2    | 10/18/10      | 101.97                       | --                         | 29.57                     | --                          | 72.40                                   | 80.23           | 75.23-80.23            |
|         | 4/19/11       |                              | --                         | 23.83                     | --                          | 78.14                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 31.62                     | --                          | 70.35                                   |                 |                        |
| TW-3    | 10/18/10      | 95.33                        | --                         | 25.39                     | --                          | 69.94                                   | 80.62           | 75.62-80.62            |
|         | 4/19/11       |                              | --                         | 23.83                     | --                          | 71.50                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 27.78                     | --                          | 67.55                                   |                 |                        |
| TW-4    | 10/18/10      | 99.23                        | --                         | 43.13                     | --                          | 56.10                                   | 68.56           | 63.56-68.56            |
|         | 4/19/11       |                              | --                         | 27.11                     | --                          | 72.12                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 31.09                     | --                          | 68.14                                   |                 |                        |
| TW-5    | 10/18/10      | 103.62                       | --                         | 29.69                     | --                          | 73.93                                   | 58.38           | 53.38-58.38            |
|         | 4/19/11       |                              | --                         | 25.96                     | --                          | 77.66                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 33.09                     | --                          | 70.53                                   |                 |                        |
| TW-6    | 10/18/10      | 101.29                       | --                         | 31.22                     | --                          | 70.07                                   | 58.55           | 53.55-58.55            |
|         | 4/19/11       |                              | --                         | 25.25                     | --                          | 76.04                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 33.00                     | --                          | 68.29                                   |                 |                        |
| TW-7    | 10/18/10      | 98.13                        | --                         | 50.90                     | --                          | 47.23                                   | 58.94           | 53.94-58.94            |
|         | 4/19/11       |                              | --                         | 16.83                     | --                          | 81.30                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 36.98                     | --                          | 61.15                                   |                 |                        |
| TW-8    | 10/18/10      | 101.03                       | --                         | 28.18                     | --                          | 72.85                                   | 58.53           | 53.53-58.53            |
|         | 4/19/11       |                              | --                         | 22.19                     | --                          | 78.84                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 41.54                     | --                          | 59.49                                   |                 |                        |
| TW-9    | 12/6/10       | 96.92                        | --                         | 28.96                     | --                          | 67.96                                   | 80.12           | 75.12-80.12            |
|         | 4/19/11       |                              | --                         | 21.14                     | --                          | 75.78                                   |                 |                        |
|         | 8/29/11       |                              | --                         | 28.94                     | --                          | 67.98                                   |                 |                        |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|--------------------|-------------------|---------------------|----------------------|-------------|--------------------|-----------------|------------|-------------------|
| MW-1    | 5/25/10     | Free Product       |                   |                     |                      |             |                    |                 |            |                   |
|         | 10/18/10    | Free Product       |                   |                     |                      |             |                    |                 |            |                   |
|         | 4/19/11     | 456                | 210               | 1,010               | 4,700                | <50.0       | 277                | <50.0           | 1.2        | NR                |
|         | 8/29/11     | 1,130              | 317               | 941                 | 3,779                | <50         | 225                | 82              | 1.3        | NR                |
| MW-2    | 5/25/10     | 109 <sup>2</sup>   | <5.0 <sup>3</sup> | 114                 | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035      | NR                |
|         | 10/19/10    | 1.7 J <sup>5</sup> | <5.0              | <5.0                | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020     | NR                |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 28.5            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 26.1            | <0.019     | NR                |
| MW-3    | 5/25/10     | 239                | 139               | 815                 | 4,800                | <5.0        | 285                | 126             | 0.099      | 28.9              |
|         | 10/18/10    | 6,820              | 343               | 981                 | 6,260                | 3.4 J       | 449                | 561             | 0.31       | NR                |
|         | 4/19/11     | 7,300              | 253               | 921                 | 5,060                | <250        | 342                | 542             | 0.30       | NR                |
|         | 8/29/11     | 7,000              | 572               | 1,170               | 6,710                | <250        | 371                | 438             | 0.033      | NR                |
| MW-4    | 5/25/10     | 2.9 J              | <5.0              | 1.4 J               | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020     | 62.8              |
|         | 10/18/10    | 5.7                | <5.0              | <5.0                | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020     | NR                |
|         | 4/20/11     | 16.4               | <5.0              | 6.0                 | 14.0                 | <5.0        | 9.3                | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-5    | 5/25/10     | 3.6 J              | 1.8 J             | 4.0 J               | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020     | 11.8              |
|         | 10/18/10    | 102                | <5.0              | 4.1 J               | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020     | NR                |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| MW-6    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| MW-7    | 10/19/10    | 12.9               | 4.6 J             | 3.2 J               | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40       | <5.0              |
|         | 4/20/11     | 794                | 108               | 410                 | 2,536                | <5.0        | 116                | 66.6            | 6.9        | NR                |
|         | 8/29/11     | 275                | <10.0             | 42.6                | 178.8                | <10.0       | 30.7               | 26              | 0.58       | NR                |
| MW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                | 4.0 J                | <5.0        | 2.2 J              | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| MW-9    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/19/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-10   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
|         | 4/19/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-11   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 1.3 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
|         | 8/29/11     | 7.9                | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 2.8 J           | <0.019     | NR                |
| MW-12   | 10/19/10    | 387                | 1,210             | 120                 | 2,650                | <5.0        | 187                | 24.7            | 4.8        | <5.0              |
|         | 4/20/11     | 1,360              | 987               | 462                 | 1,659                | <50.0       | 91.3               | 75.7            | 6.0        | NR                |
|         | 8/29/11     | 429                | 26.9              | 8.3 J               | 18.3 J               | <12.5       | 5.2 J              | 126             | 2.5        | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| MW-13   | 10/19/10    | 333            | 109            | 58.3                | 282                  | <10.0       | 10.1               | 61.9           | 0.022      | <5.0              |
|         | 4/20/11     | 376            | 46.8           | 31.2                | 394                  | <12.5       | 11.7 J             | 57.0           | 0.074      | NR                |
|         | 8/29/11     | 65.5           | 11.7           | 9.2                 | 34.2                 | <5.0        | <5.0               | 41.7           | 0.033      | NR                |
| MW-14   | 10/19/10    | <5.0           | <5.0           | 2.5 J               | 9.5 J                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | 2.8 J          | <5.0           | 3.4 J               | 5.8 J                | <5.0        | 22                 | <5.0           | <0.020     | NR                |
| MW-15   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.0 J          | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| MW-16   | 10/19/10    | 246            | 26.1           | 14.3                | 229.2                | <5.0        | <5.0               | 2.5 J          | <0.020     | <5.0              |
|         | 4/19/11     | 158            | 8.5            | 2.5 J               | 96.2                 | <5.0        | 5.8                | <5.0           | <0.020     | NR                |
|         | 8/29/11     | NR             | NR             | NR                  | NR                   | NR          | NR                 | NR             | <0.019     | NR                |
| MW-17   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | 4.3 J             |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-18   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |



**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| MW-19   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-20   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-21   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/21/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-22   | 12/6/10     | <b>11,900</b>  | <b>29,500</b>  | <b>1,800</b>        | <b>11,400</b>        | <100        | <b>522</b>         | <b>463</b>     | <b>122</b> | <b>15.3</b>       |
|         | 4/20/11     | <b>8,690</b>   | <b>20,600</b>  | <b>1,870</b>        | <b>11,070</b>        | <1,250      | <1,250             | <1,250         | <b>119</b> | NR                |
|         | 8/29/11     | <b>3,630</b>   | <b>23,500</b>  | <b>3,530</b>        | <b>20,200</b>        | <1,000      | <b>859 J</b>       | <1,000         | <b>188</b> | NR                |
| MW-23   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-24   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>6.7</b>     | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>4.1 J</b>   | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>2.5 J</b>   | <0.019     | NR                |
| MW-25   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-26   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| MW-27   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>6.4</b>     | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <b>2.6 J</b>   | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| MW-28   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/21/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-1    | 10/18/10    | <5.0           | <5.0           | <5.0                | <15.0                | <b>5.7</b>  | <5.0               | <b>64.2</b>    | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <b>5.0</b>  | <5.0               | <b>48.9</b>    | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <b>6.4</b>  | <5.0               | <b>48.4</b>    | <0.019     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-2    | 10/19/10    | <5.0           | 3.4 J          | <5.0                | 2.8 J                | <5.0        | <5.0               | 4.2 J          | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | 1.6 J          | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| TW-3    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-4    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | 2.9 J       | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-5    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 1.7 J          | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID            | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MIBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|--------------------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-6               | 10/19/10    | 1.5 J          | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 5.1            | <0.020     | <5.0              |
|                    | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 3.6 J          | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 8.9            | <0.019     | NR                |
| TW-7               | 10/19/10    | <5.0           | 1.9 J          | <5.0                | 5.6 J                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|                    | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| TW-8               | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | <5.0              |
|                    | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-9               | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | <5.0              |
|                    | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                    | 8/29/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| TW-10 <sup>6</sup> | 12/2/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | 2.9 J              | <5.0           | <0.020     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID                       | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|-------------------------------|-------------|---|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| WSW-1                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     | NR                |
| WSW-1<br>pre GAC <sup>7</sup> | 11/18/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | 2.4            | <0.019     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020     | NR                |
| WSW-1<br>post GAC             | 11/18/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020     | NR                |
| WSW-2                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | Not Sampled   |                |                      |                      |             |                    |                |            |                   |
| WSW-3                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 5/3/11      | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020     | NR                |
| WSW-4                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019     | NR                |
| WSW-5                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 4/21/11     | Well pump not operational, could not collect sample |                |                      |                      |             |                    |                |            |                   |
|                               | 8/29/11     | Not Sampled   |                |                      |                      |             |                    |                |            |                   |
| WSW-6                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | 0.88 J         | <0.019     | NR                |
| WSW-7                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019     | NR                |
| WSW-8                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | 3.6 J       | <5.0               | 9.2            | <0.020     | NR                |
| WSW-8<br>pre GAC <sup>8</sup> | 11/12/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 7.5            | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.9 J          | <0.020     | NR                |
|                               | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | 1.6            | <0.019     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID           | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L)  | Total Lead (ug/L) |
|-------------------|-------------|---|----------------|----------------------|----------------------|-------------|--------------------|----------------|-------------|-------------------|
| WSW-8<br>post GAC | 11/12/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.019      | NR                |
| WSW-9             | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
| WSW-10            | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | 0.45 J         | <0.020      | NR                |
| WSW-11            | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | 0.45 J         | <0.019      | NR                |
| WSW-12            | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | Well pump not operational, could not collect sample |                |                      |                      |             |                    |                |             |                   |
|                   | 8/29/11     | Not Sampled   |                |                      |                      |             |                    |                |             |                   |
| WSW-13            | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
| WSW-14            | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | 1.3         | <1.0               | <1.0           | <0.020      | NR                |
| WSW-15            | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019      | NR                |
|                   | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020      | NR                |
|                   | 8/29/11     | <1.0  | <1.0           | <1.0                 | <3.0                 | <1.0        | <1.0               | <1.0           | <0.020      | NR                |
| <b>RBSL</b>       |             | <b>5</b>  | <b>1,000</b>   | <b>700</b>           | <b>10,000</b>        | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> | <b>15</b>         |

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
7. WSW-1 GAC installed on 11/18/10.
8. WSW-8 GAC installed on 11/12/10.
9. May 2001 Risk-Based Screening Level.

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID | Date Sampled | Ethanol (ug/L)    | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Fert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|---------|--------------|-------------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-1    | 10/18/10     | Free Product      |                                      |                                  |                               |                                     |                                      |                                |                                 |
|         | 4/19/11      | <2,000            | <100                                 | <50.0                            | <1,000                        | <1,000                              | <100                                 | <1,000                         | <500                            |
|         | 8/29/11      | <2,000            | <100                                 | <50.0                            | <1,000                        | <1,000                              | <100                                 | 2,160                          | <500                            |
| MW-2    | 10/19/10     | <200 <sup>2</sup> | <10.0                                | <5.0                             | <100                          | 254                                 | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | 336                                 | <10.0                                | 96.2 J                         | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | 386                                 | <10.0                                | 87.1 J                         | <50.0                           |
| MW-3    | 10/18/10     | <200              | <10.0                                | 55.7                             | <100                          | 773                                 | <10.0                                | 12,900 <sup>3</sup>            | <50.0                           |
|         | 4/19/11      | <10,000           | <500                                 | <250                             | <5,000                        | <5,000                              | <500                                 | 13,800                         | <2,500                          |
|         | 8/29/11      | <10,000           | <500                                 | <250                             | <5,000                        | <5,000                              | <500                                 | 10,300                         | <2,500                          |
| MW-4    | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 199                            | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-5    | 10/18/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 168                            | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-6    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 131                            | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-7    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 2,650                          | <50.0                           |
|         | 8/29/11      | <400              | <20.0                                | <10.0                            | <200                          | 225                                 | <20.0                                | 672                            | <100                            |
| MW-8    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 244                            | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-9    | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-10   | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-11   | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-12   | 10/19/10     | <200              | <10.0                                | <5.0                             | <100                          | 83.0 J <sup>4</sup>                 | <10.0                                | 267                            | <50.0                           |
|         | 4/20/11      | <2,000            | <100                                 | <50.0                            | <1,000                        | <1,000                              | <100                                 | <1,000                         | <500                            |
|         | 8/29/11      | <500              | <25.0                                | 4.8 J                            | <250                          | <250                                | <25.0                                | 615                            | <125                            |
| MW-13   | 10/19/10     | <400              | <20.0                                | <10.0                            | <200                          | <200                                | <20.0                                | 1,260                          | <100                            |
|         | 4/20/11      | <500              | <25.0                                | <12.5                            | <250                          | <250                                | <25.0                                | 1,210                          | <125                            |
|         | 8/29/11      | <200              | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 1,040                          | <50.0                           |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|---------|--------------|----------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-14   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-15   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-16   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 360                            | <50.0                           |
|         | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 321                            | <50.0                           |
|         | 8/29/11      | Not Requested  |                                      |                                  |                               |                                     |                                      |                                |                                 |
| MW-17   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-18   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-19   | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-20   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-21   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/21/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | 368                            | <50.0                           |
| MW-22   | 12/6/10      | <4,000         | <200                                 | <100                             | <2,000                        | <2,000                              | <200                                 | 9,730                          | <1,000                          |
|         | 4/20/11      | <50,000        | <2,500                               | <1,250                           | <25,000                       | <25,000                             | <2,500                               | <25,000                        | <12,500                         |
|         | 8/29/11      | <40,000        | <2,000                               | <1,000                           | <20,000                       | <20,000                             | <2,000                               | <20,000                        | <10,000                         |
| MW-23   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-24   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-25   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-26   | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|         | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                    | Date Sampled               | Ethanol (ug/L)   | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert- Amyl Alcohol (TAA) (ug/L) | tert- Butyl Formate (TBF) (ug/L) |
|----------------------------|----------------------------|--|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|----------------------------------|
| WSW-1 pre GAC <sup>6</sup> | 11/18/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-1 post GAC             | 11/18/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-2                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-3                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-4                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-5                      | 12/8/10                    | Not sampled for oxygenates. Well pump electric disconnected. |                                      |                                  |                                |                                     |                                      |                                 |                                  |
| WSW-6                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-7                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-8 pre GAC <sup>7</sup> | 11/12/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>262</b>                      | <50.0                            |
| WSW-8 post GAC             | 11/12/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-9                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-10                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-11                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-12                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-13                     | 12/8/10                    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.    |                                      |                                  |                                |                                     |                                      |                                 |                                  |
| WSW-14                     | 12/8/10                    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.    |                                      |                                  |                                |                                     |                                      |                                 |                                  |
| WSW-15                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | Action Levels <sup>8</sup> | 10,000   | 47                                   | 150                              | NA                             | 1,400                               | 128                                  | 240                             | NA                               |

Notes:

1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.



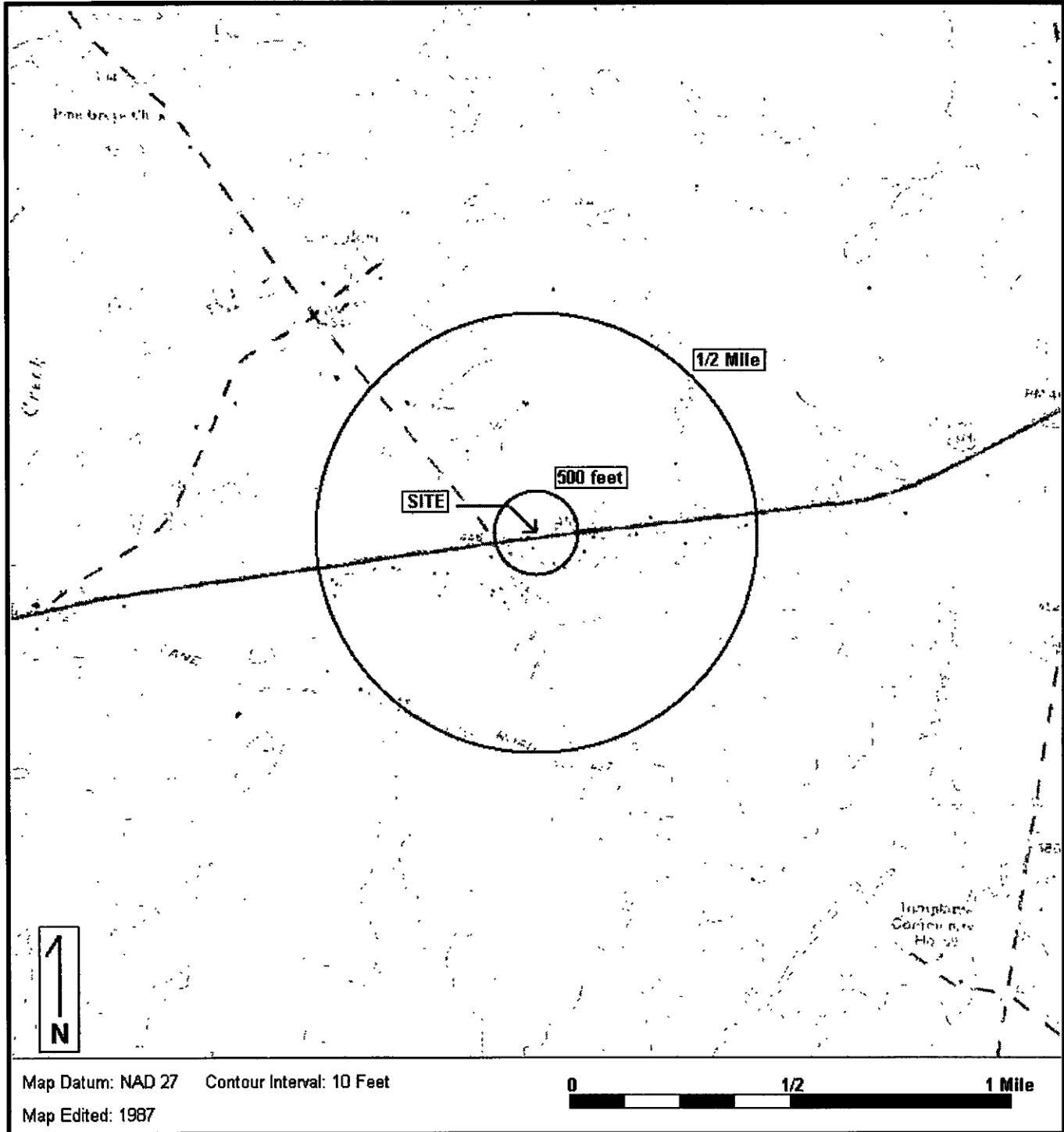
## **FIGURES**

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Environmental Compliance Services, Inc.  
13504 South Point Boulevard  
Charlotte, NC 28273  
Phone 704.583.2711  
www.ecsconsult.com

378 Truck Stop  
731 Highway 378  
Edgefield, SC 29824

Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC

Lat/Lon: 33° 56' 13" NORTH, 81° 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH

Generated By: Rich Walas

**SUMMARY of SLUG TEST ANALYSES**

SOUTH CAROLINA  
Department of Health and Environmental Control (DHEC)

**Site Data**

SITE ID #: 07960 COUNTY: Edgefield  
FACILITY NAME: 378 Truck Stop

**Slug Data**

See Appendix G Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements. (water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by InSitu LevelTroll  
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.  
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

|  |              |              |  |  |
|--|--------------|--------------|--|--|
| Slug Test Conducted in well(s) Number        | <b>MW-12</b> | <b>MW-17</b> |  |  |
| Initial Rise/Drawdown in well (feet)         | 1.636        | 2.356        |  |  |
| Radius of Well Casing (feet)                 | 0.08         | 0.08         |  |  |
| Effective Radius of Well (feet)              | 0.26         | 0.26         |  |  |
| Static Saturated Aquifer Thickness (feet)    | 10.37        | 11.26        |  |  |
| Length of Well Screen (feet)                 | 15           | 15           |  |  |
| Static Height of Water Column in Well (feet) | 0.49         | 0.35         |  |  |

**Calculations**

See Appendix G Table \_\_\_\_\_ Figure \_\_\_\_\_ for calculations. (Complete as appropriate).

The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

|                                       |              |              |  |  |
|---------------------------------------|--------------|--------------|--|--|
| Slug Test Conducted in well(s) number | <b>MW-12</b> | <b>MW-17</b> |  |  |
| Hydraulic Conductivity (ft/day)       | 0.5359       | 0.2019       |  |  |

Thickness of the aquifer used to calculate MW-12 hydraulic conductivity was 10.37 feet.  
The aquifer is \_\_\_\_\_ confined \_\_\_\_\_ semi-confined X water table.

Thickness of the aquifer used to calculate MW-17 hydraulic conductivity was 11.26 feet.  
The aquifer is \_\_\_\_\_ confined \_\_\_\_\_ semi-confined X water table.

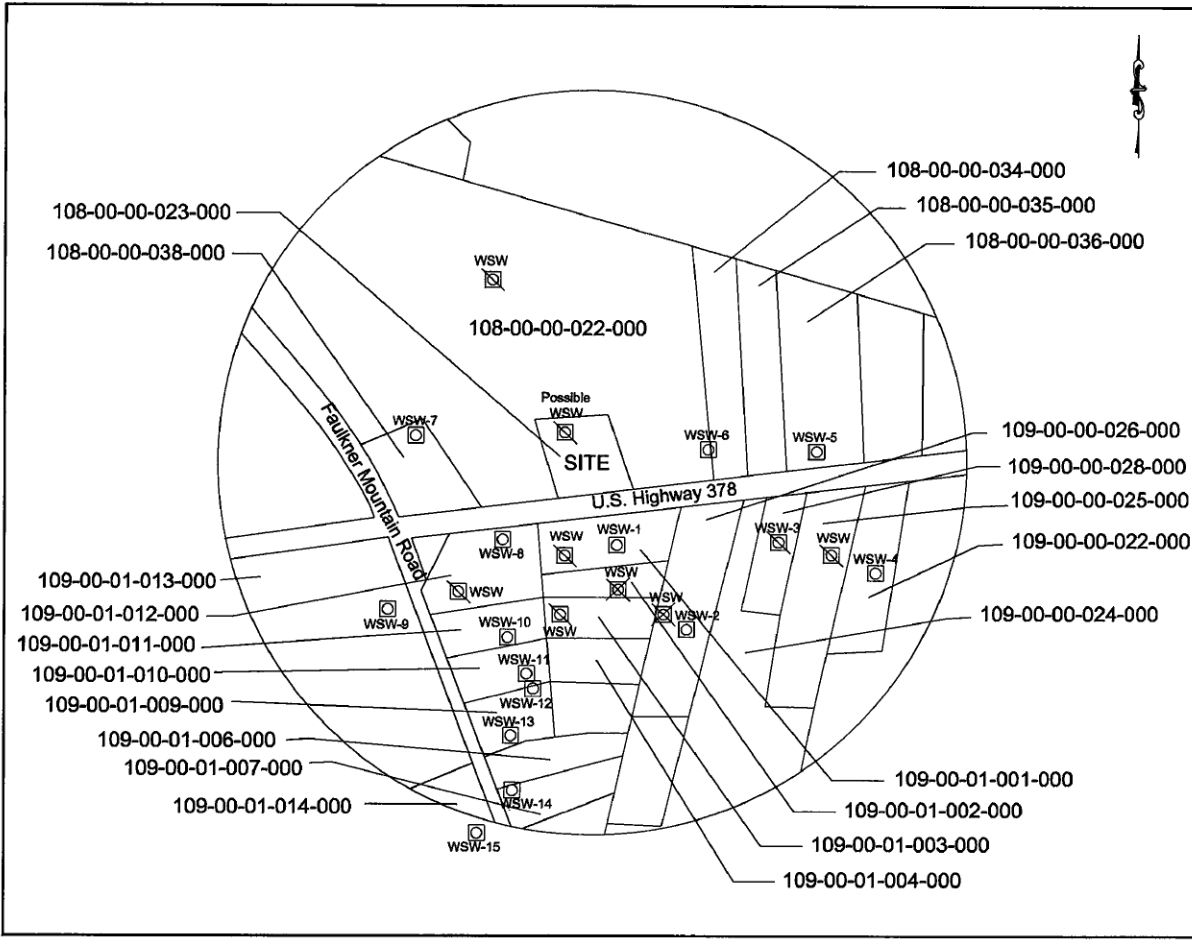
The estimated seepage velocity is 22.01 & 8.29 feet/year based on  
a hydraulic conductivity of 0.5359 ft/day & 0.2019 ft/day a hydraulic gradient of 0.009 ft/ft and  
a porosity of 8 percent for a SILT soil (list type).

**TABLE 1  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES<sup>1</sup>  
378 TRUCK STOP**

| Parcel Identification | Property Owner Name                         | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|---|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-6, MW 21, TW-1, TW-2                         | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | WSW-6 & Disconnected WSW       | MW-7, MW-8, MW-20, MW-27, MW-28                              | Wooded Area around site; WSW-6 tag info Date: 9/14/00, Depth: 400 ft.                                 |
| 108-00-00-034-000     | Shirley J Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | no WSWs identified             | -  | -   |
| 108-00-00-035-000     | Betty O. Doolittle                          | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | 21st Mortgage Corporation                   | 620 Market Street #100, Knoxville TN 37902   | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info. Date: 6/16/07, Depth: 300 ft; well was disconnected from power during 12/8/10 visit   |
| 108-00-00-038-000     | Northside Volunteer Fire Department         | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                  | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                           | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | -  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                         | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods  |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates          | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-18  | -   |
| 109-00-00-028-000     | Leroy Diggs                                 | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scoury, etal                         | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7         | WSW-1 tag info Date: 12/91, Depth: 280 ft   |
| 109-00-01-002-000     | Henry Allen Harling                         | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-19 and TW-8   | Wooded lot behind Scoury residence, resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16, MW-25, TW-6   | -   |
| 109-00-01-004-000     | JG and JP Owdom                             | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | MW-26 and TW-9   | -   |
| 109-00-01-006-000     | Ulysess Padgett                             | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | no WSWs identified             | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                  | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                            | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12 and WSW-13              | -  | -   |
| 109-00-01-010-000     | Luther Mitchell Life Estate                 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                            | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10, MW-24, TW-4, abandoned TW-10                          | -   |
| 109-00-01-012-000     | Sidney L. Gordon                            | 724 Hwy 378 East, Edgefield, SC 29824        | 724 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

**Notes**

1. Adjacent/adjoining properties are keyed into Figure 2.



**Legend**

108-00-00-023-000 PARCEL ID  
 \_\_\_\_\_ PARCEL BOUNDARY  
 □ WSW-1 WATER SUPPLY WELL  
 □ DISCONNECTED WSW  
 □ ABANDONED WSW

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

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WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13804 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704)883-2711 FAX: (704)883-2744

**PROJECT:**  
 378 Truck Stop  
 731 Highway 378  
 Edgewater, SC

**TITLE:**  
 Site Vicinity Map

**CLIENT:**  
 Wilkerson Fuel Company, Inc.

**GRAPHIC SCALE:**  
 0 100 200  
 FEET

| DRAWN BY: | DESIGNED BY: | CHECKED BY: | APPROVED BY: |
|-----------|--------------|-------------|--------------|
| CD        | CD           | CD          | CD           |

| SCALE:  | DATE:    | JOB NO.:  | FIGURE NO.: |
|---------|----------|-----------|-------------|
| 1"=250' | 12/15/10 | 14-214210 | 2           |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                       | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert- Amyl Alcohol (TAA) (ug/L) | tert- Butyl Formate (TBF) (ug/L) |
|-------------------------------|--------------|----------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|----------------------------------|
| MW-27                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-28                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/21/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-1                          | 10/18/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 1,180                           | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | 1.8 J                            | <100                           | <100                                | <10.0                                | 1,000                           | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 871                             | <50.0                            |
| TW-2                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 95.4 J                          | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-3                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-4                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-5                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 368                             | <50.0                            |
| TW-6                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-7                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-8                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-9                          | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-10 <sup>5</sup>            | 12/2/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-1<br>pre GAC <sup>6</sup> | 11/18/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 8/29/11      | <200           | <10.0                                | <5.0                             | <100                           | 8.3 J                               | <10.0                                | <100                            | <50.0                            |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                       | Date Sampled | Ethanol (ug/L)   | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Butyl Methyl Ether (TAME) (ug/L) | tert-Butyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|-------------------------------|--------------|--|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|---------------------------------------|---------------------------------|---------------------------------|
| WSW-1<br>post GAC             | 11/18/10     | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/20/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-2                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/20/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | Not Sampled  |                                      |                                  |                               |                                     |                                       |                                 |                                 |
| WSW-3                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 5/3/11       | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-4                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-5                         | 12/8/10      | Not sampled for oxygenates. Well pump electric disconnected. |                                      |                                  |                               |                                     |                                       |                                 |                                 |
|                               | 4/21/11      | Well pump not operational, could not collect sample          |                                      |                                  |                               |                                     |                                       |                                 |                                 |
|                               | 8/29/11      | Not Sampled  |                                      |                                  |                               |                                     |                                       |                                 |                                 |
| WSW-6                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-7                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-8<br>pre GAC <sup>7</sup> | 11/12/10     | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | 262                             | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-8<br>post GAC             | 11/12/10     | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-9                         | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-10                        | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
| WSW-11                        | 12/8/10      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 4/21/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |
|                               | 8/29/11      | <200   | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                 | <100                            | <50.0                           |

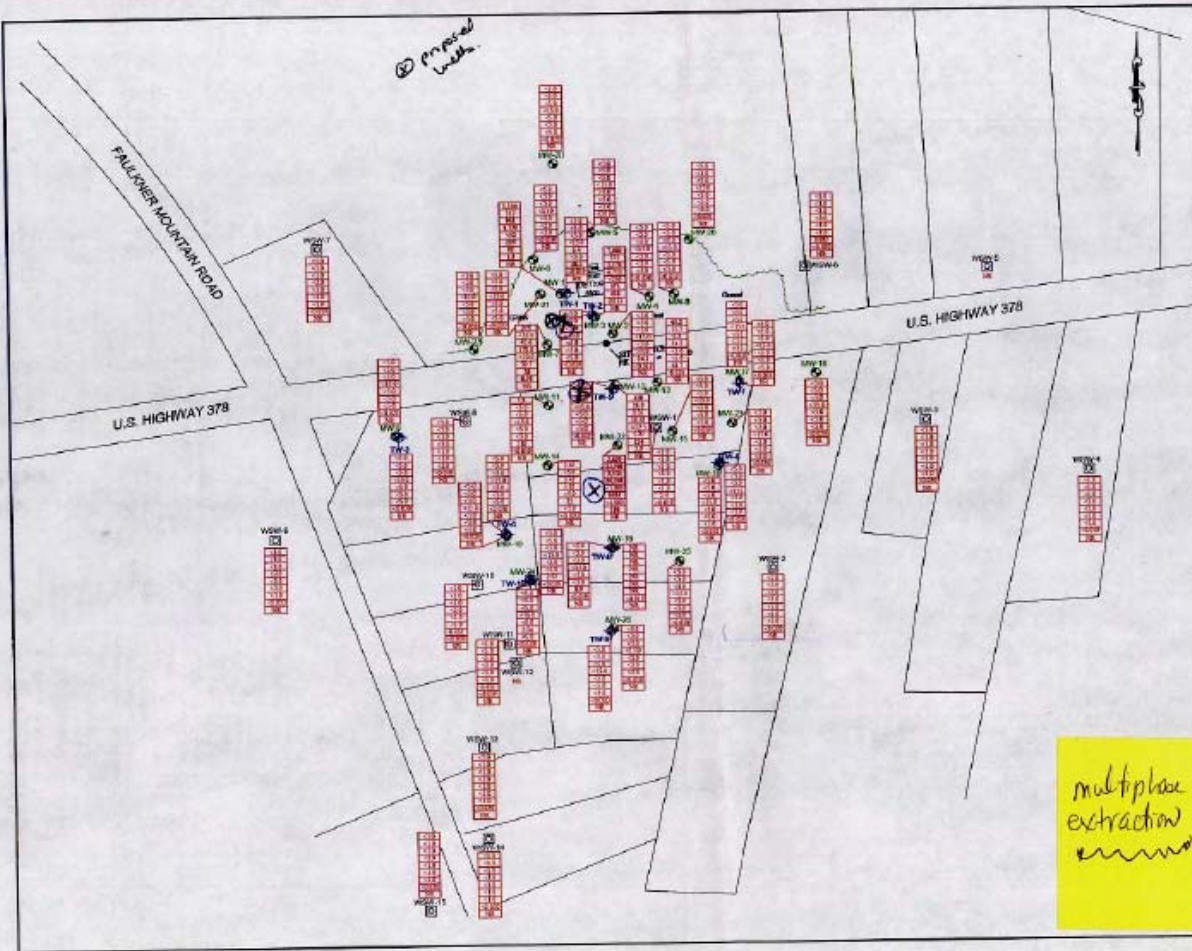
**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID               | Date Sampled  | Ethanol (ug/L)  | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-Isopropyl Ether (DIPE) (ug/L) | 2,2-Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|-----------------------|---------------|---|--------------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| WSW-12                | 12/8/10       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                       | 4/21/11       | Well pump not operational, could not collect sample       |                                      |                                  |                               |                                     |                                      |                                |                                 |
|                       | 8/29/11       | Not Sampled   |                                      |                                  |                               |                                     |                                      |                                |                                 |
| WSW-13                | 12/8/10       | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |                                      |                                  |                               |                                     |                                      |                                |                                 |
|                       | 4/21/11       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                       | 8/29/11       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-14                | 12/8/10       | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10. |                                      |                                  |                               |                                     |                                      |                                |                                 |
|                       | 4/21/11       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                       | 8/29/11       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| WSW-15                | 12/8/10       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                       | 4/21/11       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
|                       | 8/29/11       | <200  | <10.0                                | <5.0                             | <100                          | <100                                | <10.0                                | <100                           | <50.0                           |
| <b>Action Levels*</b> | <b>10,000</b> | <b>47</b>   | <b>150</b>                           | <b>NA</b>                        | <b>1,400</b>                  | <b>128</b>                          | <b>240</b>                           | <b>NA</b>                      |                                 |

Notes:

1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.





**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Station (Water Table) Monitoring Well
- ⊙ Telescoping Monitoring Well
- ⊕ Abandoned Telescoping Monitoring Well
- ⊗ Motor Supply Well

MW-1 Well ID:

|        |                |
|--------|----------------|
| 5      | Benzene        |
| 1,000  | Toluene        |
| 100    | Ethylbenzene   |
| 10,000 | Xylenes        |
| 40     | MTBE           |
| 20     | Nonhalogenated |
| 5      | 1,2-DCA        |
| 0.05   | EDB            |
| 15     | Lead           |

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in August 2011.

Above concentrations represent May 2009 Risk-Based Screening Levels. Concentrations in bold face (b) exceeded the RBSL.

J - Estimated value between the method detection limit and the laboratory reporting limit.

CLD - Less than the reporting limit specified in the laboratory report.

NR - Not Requested.

NS - Not Sampled.

MW-1 and MW-8 also represent pre-treatment concentrations.

---

**ecs**  
 WASTE REMEDIATION AND THE ENVIRONMENTAL CONCEPTS  
 1354 SOUTH POINT CIRCLE, SUITE 100  
 CHARLOTTE, NORTH CAROLINA 28203  
 TEL: 704.552.2111 FAX: 704.552.2144

---

**378 Truck Stop**  
 131 Highway 378  
 Eggleston, NC

---

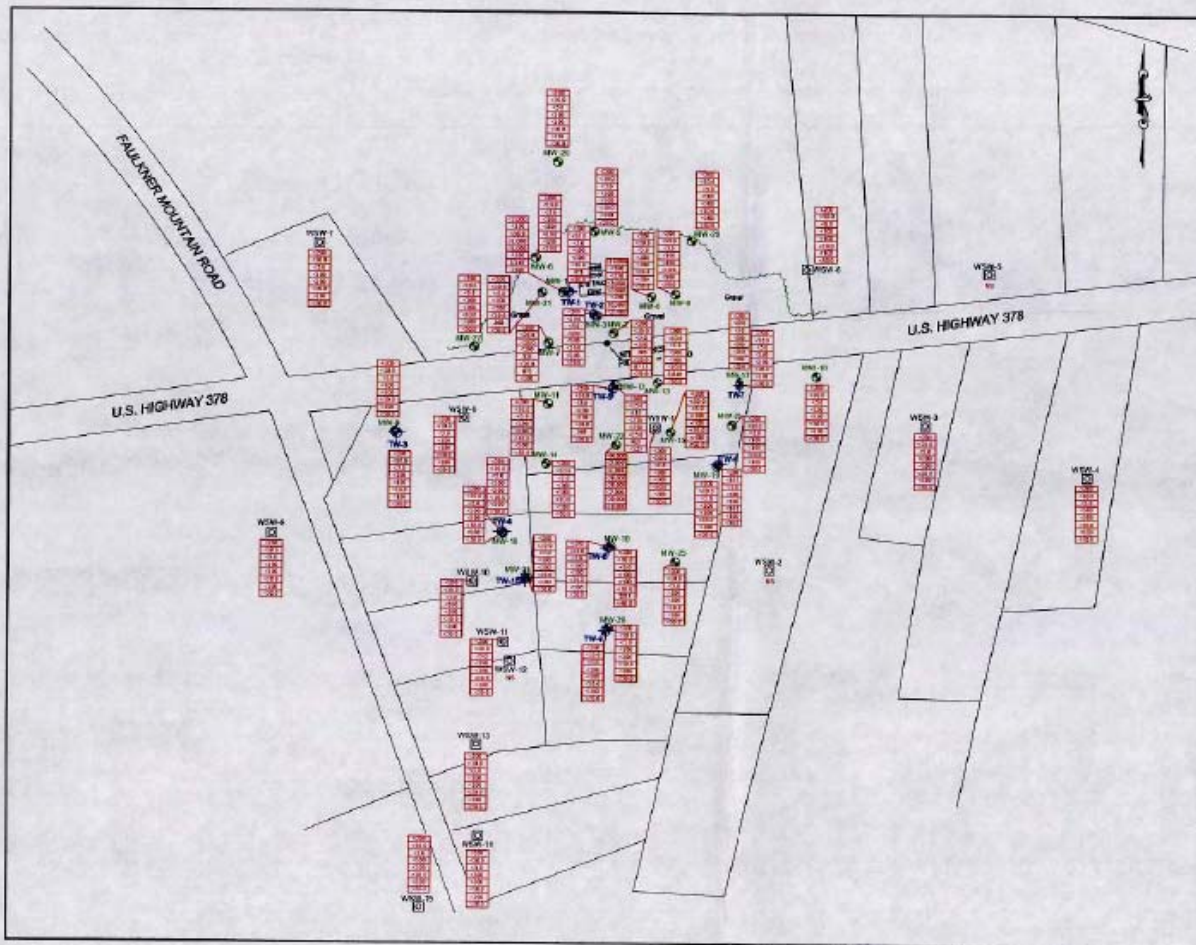
**Groundwater Quality Map -CoC**

Client: **Wilkerson Fuel Company, Inc.**

---

|              |           |             |              |          |
|--------------|-----------|-------------|--------------|----------|
| DATE:        | SCALE:    | DATE:       | DATE:        | DATE:    |
| 08/11/11     | 1"=100'   | 08/11/11    | 08/11/11     | 08/11/11 |
| DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY: |          |
| CO           | BB        | DS          | BB           |          |
| SCALE:       | DATE:     | DATE:       | DATE:        |          |
| 1"=100'      | 08/11/11  | 08/11/11    | 08/11/11     |          |

multi-phase extraction



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- U Utility Pole
- Shallow (Water Table) Monitoring Well
- ◆ Telescoping Monitoring Well
- ★ Abandoned Telescoping Monitoring Well
- Water Supply Well
- MW-1 Well ID.

|        |                               |
|--------|-------------------------------|
| 10,000 | Ethanol                       |
| 100    | Ethyl Tert-Butyl Ether (ETBE) |
| 10     | Dibutyl Ether (DBE)           |
| 1      | 2,3-Dimethyl-1-Butanol        |
| 1.000  | Tertiary Butyl Alcohol (TBA)  |
| 1.00   | Tert-Amyl Methyl Ether (TAME) |
| 2.00   | Tert-Amyl Alcohol (TAA)       |
| 1.00   | Tert-Butyl Formate (TBF)      |

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (µg/L).

Groundwater samples collected in August 2011.

Above concentrations represent 2010 SDWA Action Level Concentrations in bold face type exceeded the Action Level.

J - Calculated Value between the method detection limit and the reporting limit.

<LO - Less than the reporting limit specified in the laboratory report.

NG - Not Sampled

WSN-1 and WSN-2 data represent pre-treatment concentrations.

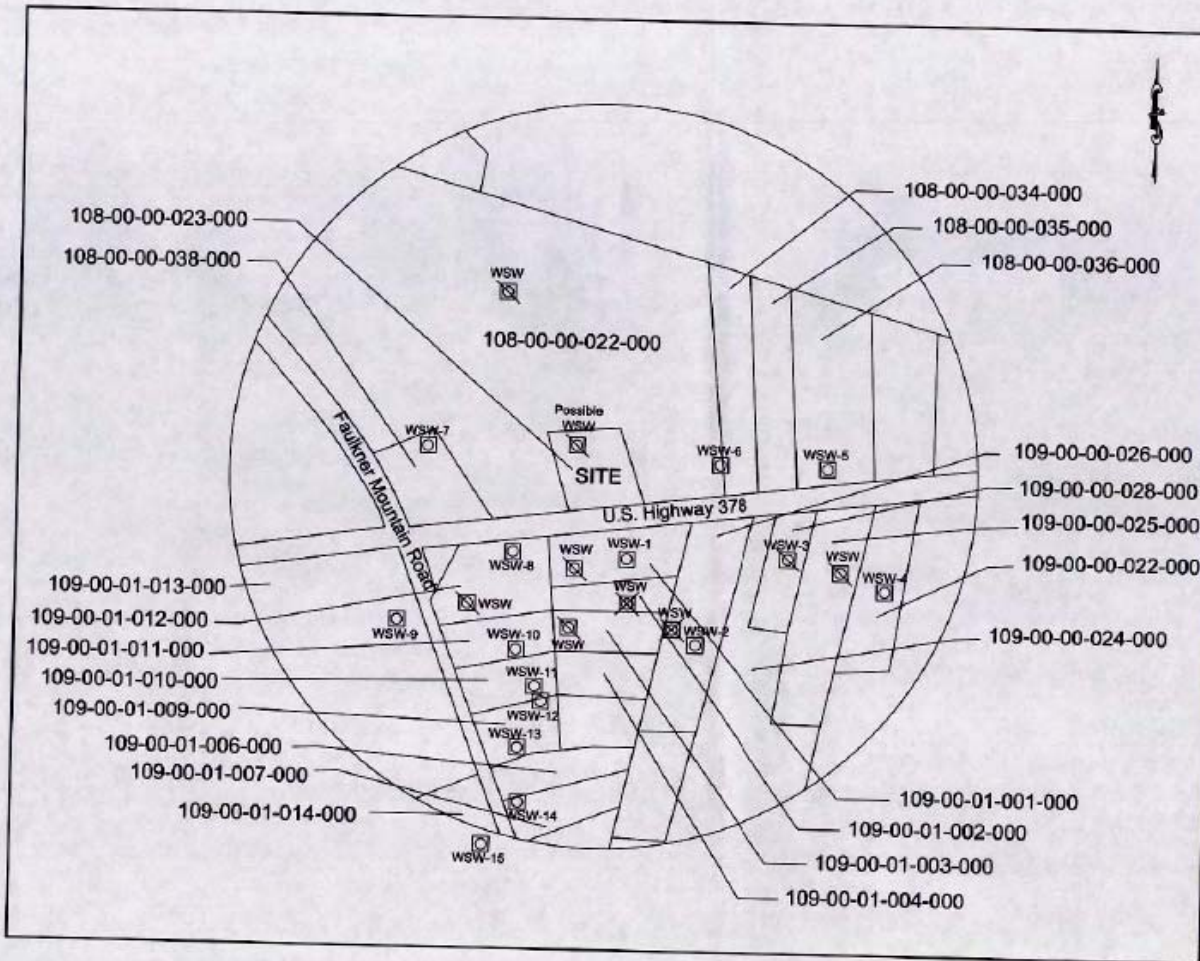
**ecs**

WATER BUSINESS AND THE ENVIRONMENT CONVERGE  
 4704 SOUTH POINT BLVD, SUITE 1  
 CHARLOTTE, NORTH CAROLINA 28217  
 TEL: (704) 582-2111 FAX: (704) 582-2146

**378 Truck Stop**  
 731 Highway 270  
 Edgewater, SC

**Groundwater Quality Map - Oxygenates**  
 Date: **Wilkinson Fuel Company, Inc.**

|         |                |            |           |
|---------|----------------|------------|-----------|
| DATE    | 12/11/11       | SCALE      | 1" = 100' |
| PROJECT | 378 Truck Stop | DRAWN BY   | SS        |
| DATE    | 12/11/11       | CHECKED BY | SS        |
| SCALE   | 1" = 100'      | DATE       | 12/11/11  |
| PROJECT | 378 Truck Stop | DATE       | 12/11/11  |



**Legend**

108-00-00-023-000 PARCEL ID  
 --- PARCEL BOUNDARY  
 [Square with Circle] WSW-1 WATER SUPPLY WELL  
 [Square with X] DISCONNECTED WSW  
 [Square with Diagonal Line] ABANDONED WSW

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

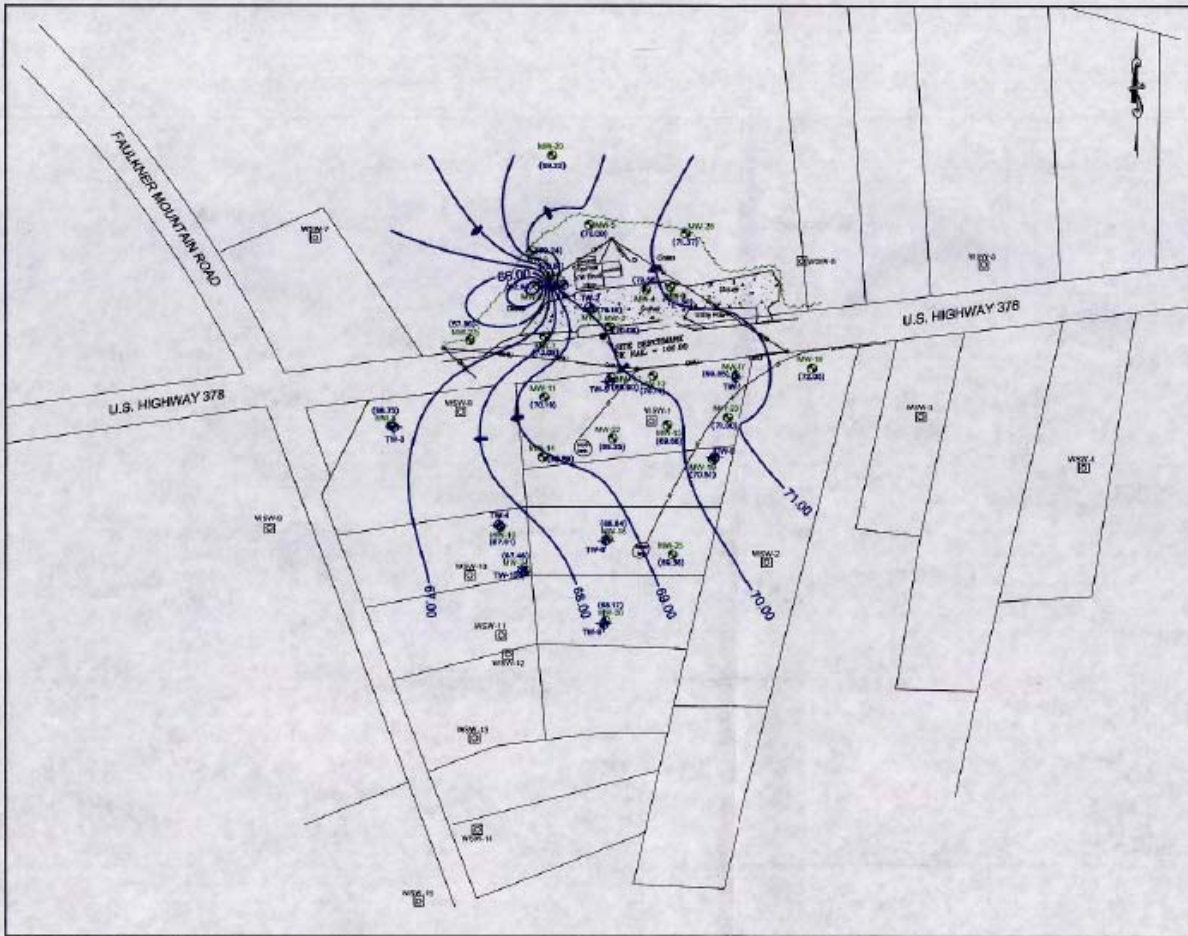
**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1804 SOUTH POCKET BLVD., SUITE 7  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704) 552-2111 FAX: (704) 552-2144

**378 Truck Stop**  
 731 Highway 378  
 Eggleston, SC

**Site Vicinity Map**

**Wilkinson Fuel Company, Inc.**

| DATE    | BY       | CHECKED BY | APPROVED BY |
|---------|----------|------------|-------------|
| CD      | CD       | CD         | CD          |
| SCALE   | DATE     | JOB NO.    | FOURING     |
| 1"=250' | 02/15/93 | 14-214210  | 2           |



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- ⊗ Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊗ Abandoned Telescoping Monitoring Well
- ⊠ Water Supply Well
- MW-1 Well I.D.
- (73.71) Groundwater Elevation
- Water Table Contour (Dashed where inferred)
- Flow Direction Indicator

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made in August 2011.

Water table contours and flow directions assume homogeneous isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are bisected between data points and inferred in other areas.

**ecs**  
 WATER BUSINESS AND EQUIPMENT COMPANY  
 1200 SOUTH RICHIE BLVD. SUITE 7  
 CHARLOTTE, NORTH CAROLINA 28215  
 TEL: 704.985.2711 FAX: 704.985.2744

**378 Truck Stop**  
 731 Highway 378  
 Edgeland, SC

**Groundwater Elevation Map - Shallow**

DATE: **Wilkinson Fuel Company, Inc.**

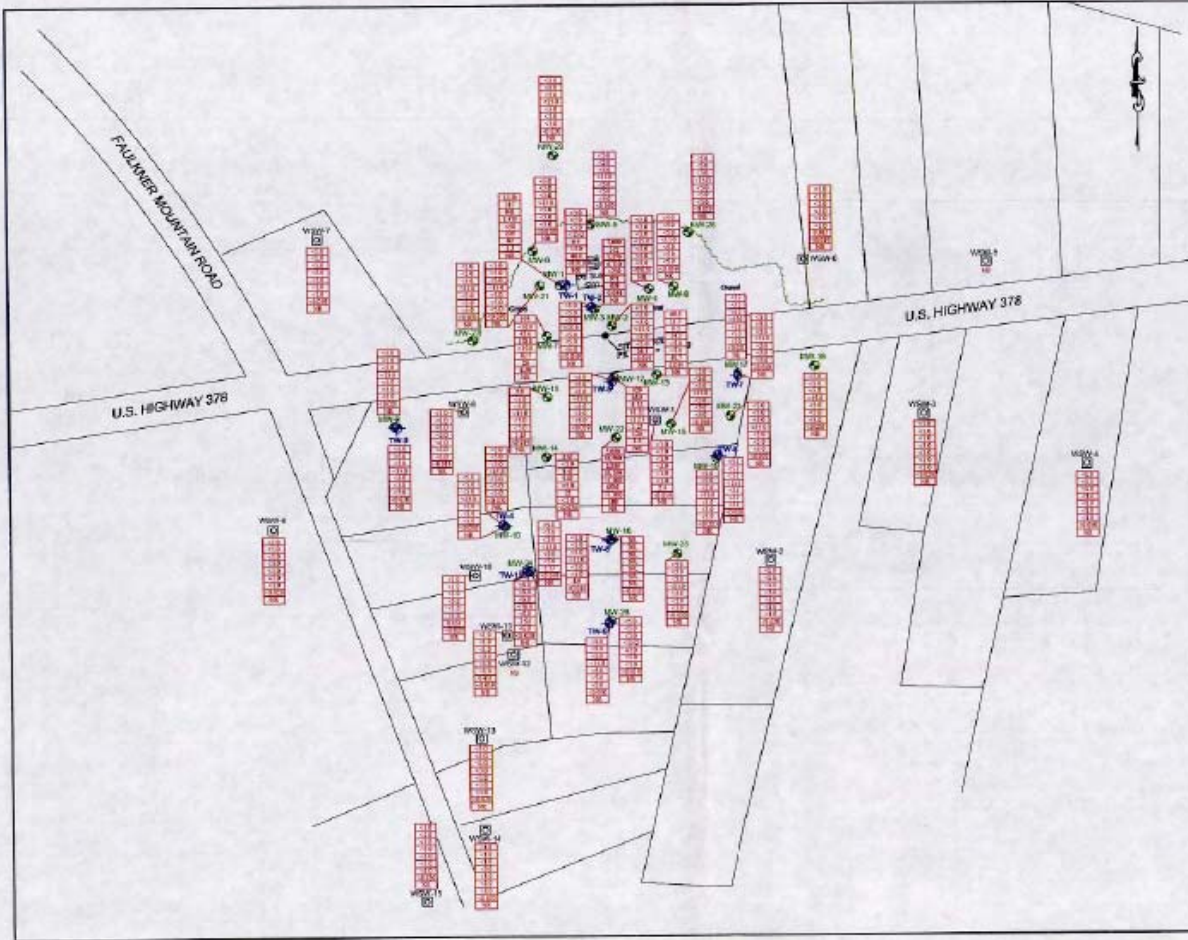
SCALE: 1" = 100'

| DATE     | BY       | CHECKED BY   | DESIGNED BY | OWNED BY |
|----------|----------|--------------|-------------|----------|
| 08/11/11 | CD       | CD           | CD          | CD       |
| DATE     | SHEET    | TOTAL SHEETS | PROJECT NO. |          |
| 11-187   | 10/20/11 | 14-2/24/11   | 1           |          |



SOUTH CAROLINA DEPT. OF TRANSPORTATION  
3900 Bull

TO



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊕ Abandoned Telescoping Monitoring Well
- ⊕ Water Supply Well

M/W-1 Ref. ID

|        |              |
|--------|--------------|
| 5      | Benzene      |
| 1,000  | Toluene      |
| 700    | Ethylbenzene |
| 10,000 | Xylenes      |
| 50     | MXEs         |
| 25     | Nonhalogenes |
| 5      | 1,2-DCA      |
| 0.05   | EDS          |
| 10     | Lead         |

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (µg/L).

Groundwater samples collected in August 2011.

Above concentrations represent May 2011 Risk-Based Screening Levels. Concentrations in solid face type exceeded the RBSL.

± - Estimated value between the method detection limit and the laboratory reporting limit.

<L - Less than the reporting limit specified in the laboratory report.

NR - Not Requested.

ND - Not Detected.

WSM-1 and WSM-2 data represent pre-treatment concentrations.

**ecs**

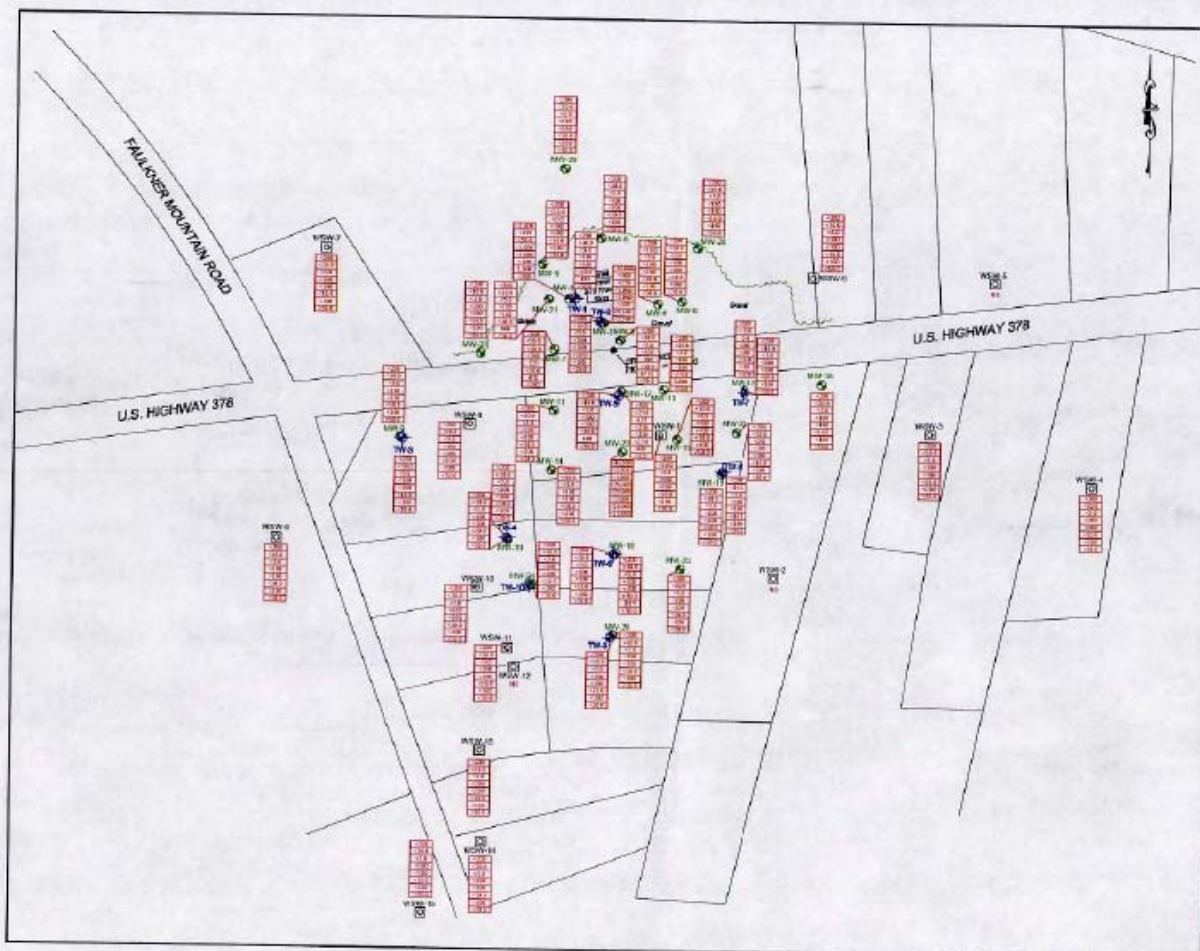
WHERE SERVICE IS PROVIDED BY ENVIRONMENTAL CONSULTANTS  
 6300 SOUTHPOINT BLVD. SUITE F  
 CHARLOTTE, NORTH CAROLINA 28217  
 TEL: (704)842-0111 FAX: (704)842-0114

**378 Truck Stop**  
 734 Highway 378  
 Cagwell, NC

**Groundwater Quality Map - CoC**

**Wilcoxon Fuel Company, Inc.**

|          |        |            |             |
|----------|--------|------------|-------------|
| DATE     | BY     | CHECKED BY | APPROVED BY |
| 08/11/11 | WILCOX | WILCOX     | WILCOX      |



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Station (Water Table Monitoring Well)
- ⊕ Telescoping Monitoring Well
- ⊖ Abandoned Telescoping Monitoring Well
- Water Supply Well
- NW-1 Well I.D.

|        |                               |
|--------|-------------------------------|
| 10,000 | Ethanol                       |
| 47     | Ethyl Tert-Butyl Ether (ETBE) |
| 100    | Di-n-propyl Ether (DPE)       |
| 24     | 2,3-Dimethyl-1-Butanol        |
| 1,400  | Tertiary Butyl Alcohol (TBA)  |
| 123    | Tert-Amyl Methyl Ether (TAME) |
| 250    | Tert-Amyl Alcohol (TAA)       |
| NA     | Tert-Butyl Formate (TBF)      |

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in August 2001.

Above concentrations represent 2010 SOGAC Action Levels. Concentrations in bold face type exceeded the Action Level.

J - Estimated Value between the method detection limit and the reporting limit.

<D - Less than the reporting limit specified in the laboratory report.

NS - Not Sampled

NW-1 and NW-0 data represent pre-treatment concentrations.

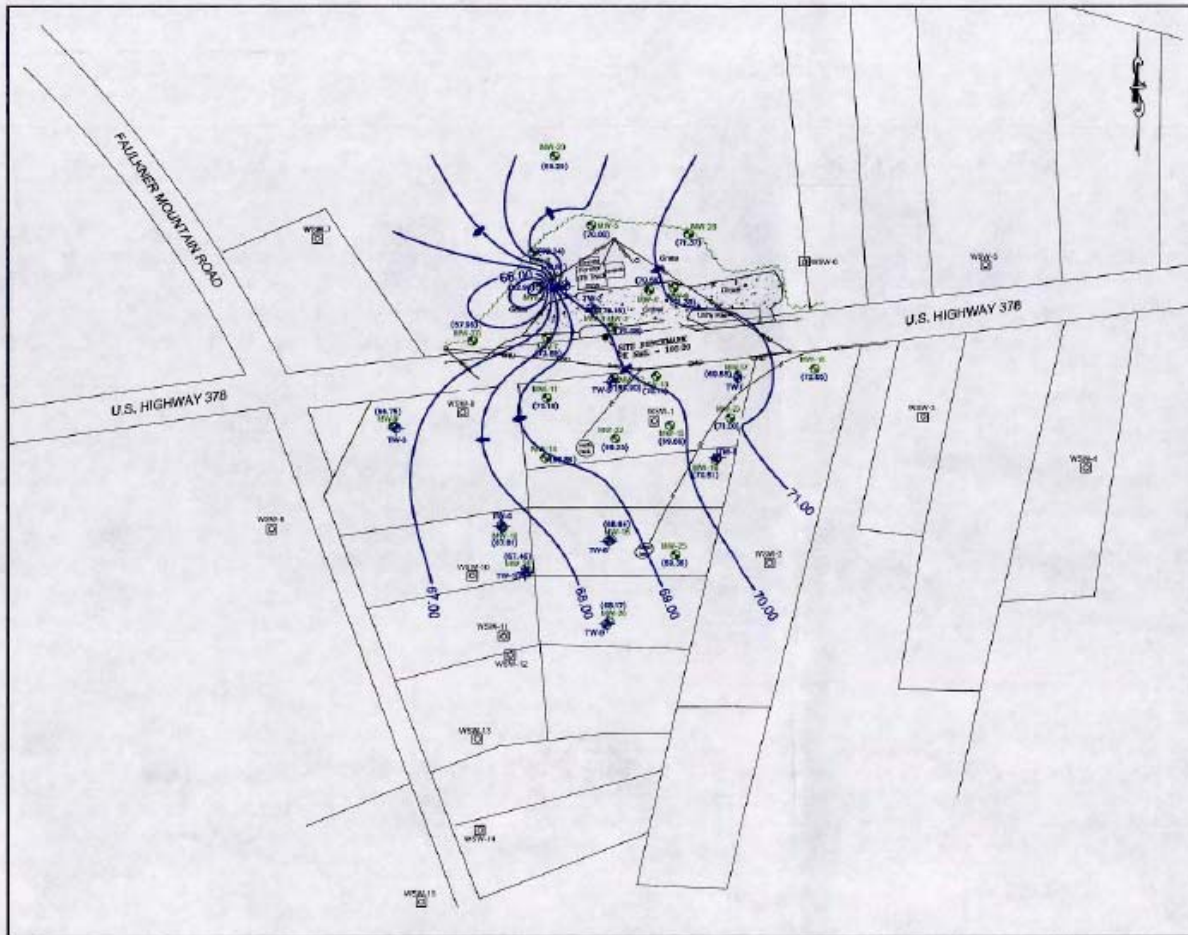
**ecs**  
 WATER SERVICES AND THE ENVIRONMENT COMPANY  
 1224 SOUTH PARKWAY, SUITE 7  
 CHARLOTTE, NORTH CAROLINA 28203  
 TEL: (704) 263-3711 FAX: (704) 263-3744

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Groundwater Quality Map - Oxygenates**

Client: **Wilkinson Fuel Company, Inc.**

|          |                |
|----------|----------------|
| DATE:    | 10/11/11       |
| SCALE:   | 1" = 50'       |
| PROJECT: | 378 Truck Stop |
| CD:      | CD             |
| ES:      | ES             |
| SG:      | SG             |
| FOUNDED: | 1959           |



- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Underground Telephone Line
  - Utility Pole
  - Shallow (Water Table) Monitoring Well
  - ◆ Telescoping Monitoring Well
  - ◆ Abandoned Telescoping Monitoring Well
  - Water Supply Well
  - MW-1 Well ID
  - (73.71) Groundwater Elevation
  - 90.00 Minor Table Contour (Dashed where Intersected)
  - Flow Direction Indicator

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land ownership purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made in August 2011.

Water table contours and flow directions assume homogeneous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

**ecs**  
 WATER BUSINESS AND THE ENVIRONMENT CONNECTION  
 12785 SANDS POINT RD, UNIT F  
 CHARLOTTE, NORTH CAROLINA 28274  
 TEL: (704) 532-3711 FAX: (704) 532-2748

PROJECT: **378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

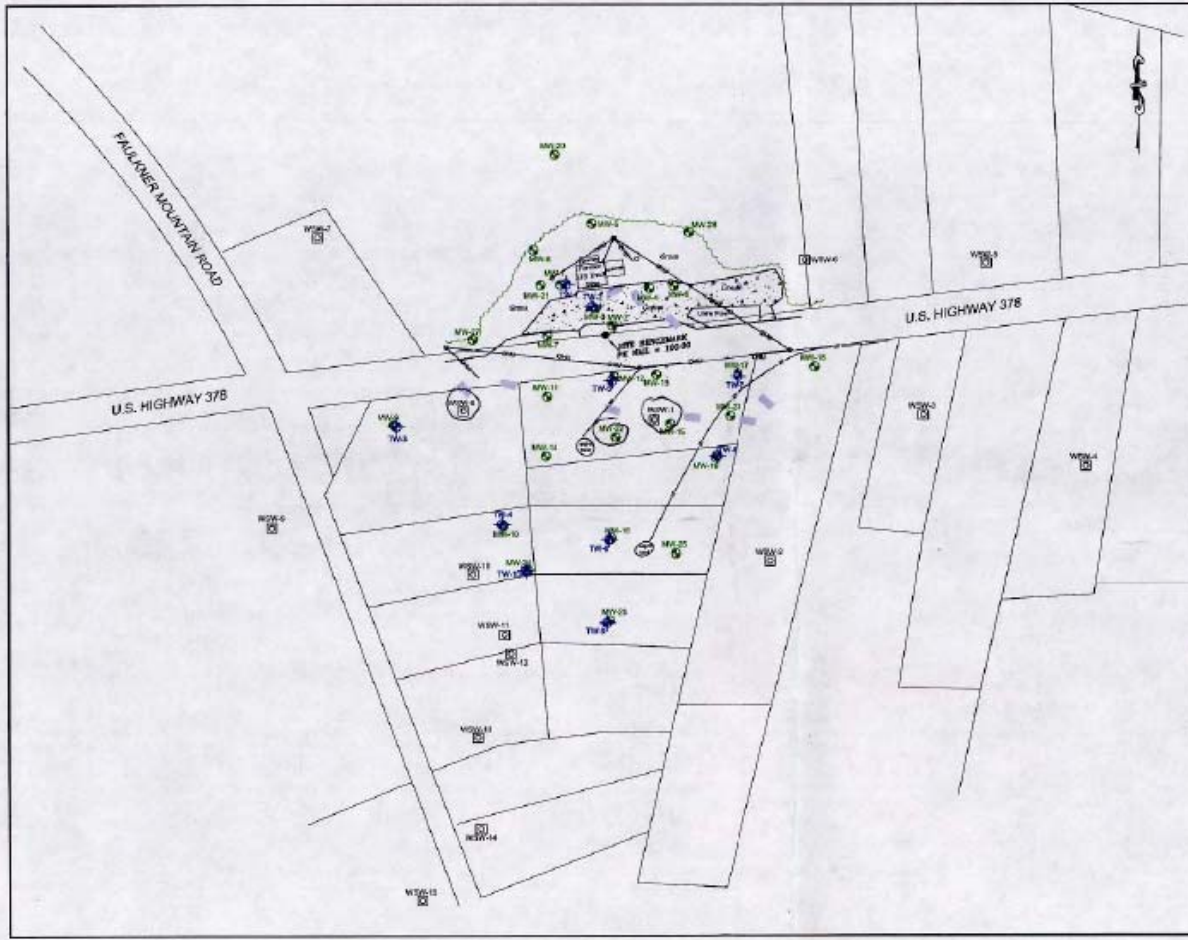
DATE: **Groundwater Elevation Map - Shallow**  
 CLIENT: **Wilkinson Fuel Company, Inc.**

DATE: 08/11

SCALE: 1"=50'

| DESIGNED BY | CHECKED BY  | APPROVED BY |
|-------------|-------------|-------------|
| CD          | CD          | CD          |
| DATE: 08/11 | DATE: 08/11 | DATE: 08/11 |
| 11-052      | 101011      | 11-214210   |
|             |             | 3           |





- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Underground Telephone Line
  - Utility Pole
  - Stake (Water Table Monitoring Well)
  - ◆ Telescoping Monitoring Well
  - ★ Abandoned Telescoping Monitoring Well
  - Water Supply Well
  - MW-1 Well 1.0

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1308 SOUTH POINT BLVD, SUITE 7  
 CHARLOTTE, NORTH CAROLINA 28203  
 TEL: 704.366.2711 FAX: 704.366.2718

**378 Truck Stop**  
 371 Highway 378  
 Edgewater, SC

**Site Plan**  
 Wilkerson Fuel Company, Inc.

| DATE | SCALE | DATE | DATE |
|------|-------|------|------|
| 03   | 03    | 03   | 03   |
| 03   | 03    | 03   | 03   |
| 03   | 03    | 03   | 03   |



**AFVR & GROUNDWATER SAMPLING REPORT**

378 Truck Stop  
731 Highway 378  
Edgefield, South Carolina  
Edgefield County

UST Permit No. 07960  
ECS Project No. 14-214210


Prepared for:  
Wilkerson Fuel Company, Inc.  
PO Box 2835  
Rock Hill, South Carolina 29732

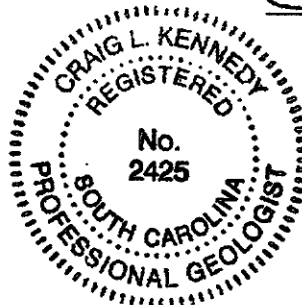
Presented to:  
Ms. Cathleen Ridgley  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201-1708

Prepared by:  
Environmental Compliance Services, Inc.  
13504 South Point Blvd, Unit F  
Charlotte, North Carolina 28273  
SC Certification No. 358

May 18, 2011

  
Christine E. Dupuis  
Project Manager

  
Craig L. Kennedy, P.G.  
SC License No. 2425



This report presents the results of Aggressive Fluid/Vapor Recovery (AFVR) and groundwater sampling activities conducted by Environmental Compliance Services, Inc. (ECS) in March through May 2011 at the 378 Truck Stop site (**Figure 1** and **Figure 2**). These activities were conducted in accordance with Cost Agreement No. 41112 as approved by the South Carolina Department of Health and Environmental Control (SCDHEC) in correspondence dated March 2, 2011. The following Tables, Figures, and Appendices are attached:

- Table 1: Summary of Groundwater Elevation Data Aggressive Fluid/Vapor Recovery Events
- Table 2: Summary of Aggressive Fluid/Vapor Recovery Information
- Table 3: Summary of Adjacent Property Owners and Addresses
- Table 4: Summary of Groundwater Elevation Data
- Table 5: Summary of Groundwater Analytical Data – Chemicals of Concern
- Table 6: Summary of Groundwater Analytical Data – Eight Oxygenates
- Figure 1: Site Locus
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Map – Shallow
- Figure 4: Groundwater Elevation Map – Deep
- Figure 5: Groundwater Quality Map – CoC
- Figure 6: Groundwater Quality Map – Oxygenates
- Appendix A: AFVR Event Field Data Sheets, Emission Calculations and Disposal Manifest –  
March 16, 2011
- Appendix B: Groundwater Sampling Field Data Sheets
- Appendix C: Laboratory Analytical Reports – Groundwater Samples-April and May 2011

#### **Site Information**

The site was not in use at the time of our March through May 2011 field activities. An abandoned building was present onsite during our visits associated with the AFVR and groundwater sampling activities. A concrete slab was located directly to the east of, and abutting, the onsite building.

A release at the site was reported on October 3, 1974 and was confirmed on July 8, 1996. Reportedly, one 550-gallon diesel, one 1,000-gallon gasoline, and one 2,000-gallon gasoline underground storage tanks (USTs) and their associated piping and dispensers were removed from the site on January 1, 1987. The site did not contain USTs at the time of our 2011 activities.

#### **AFVR Event – March 16, 2011**

An AFVR event was performed at monitoring well MW-1 on March 16, 2011 by A&D Environmental and Industrial Services, Inc. (A&D) with activity monitoring provided by Brentley McNeill of ECS. Prior to the start of the event, the depths to free product and groundwater were measured in shallow monitoring well MW-1. Free product was measured in well MW-1 at a depth of 25.53 feet below top of casing (TOC). Groundwater was measured in MW-1 at a depth of 25.55 feet below TOC. Monitoring wells MW-3, MW-7, and MW-21 were used to obtain gauging data and vacuum radius of influence measurements. This AFVR event consisted of one vacuum truck extracting fluids and vapors from monitoring well MW-1 for approximately eight hours. Measurements of vacuum, air velocity, temperature, and off-gas concentration readings were collected at 15-minute intervals during the first two hours and at 30-minute intervals during the remainder of the event.

The truck vacuum readings averaged 20 inches of mercury over the course of the event. The air velocity rates averaged 4,096 ft/minute from the discharge stack over the course of the event. The organic vapor concentrations recovered from monitoring well MW-1 were measured at the truck's discharge stack using the Bacharach TLV Sniffer, and averaged 12 parts per million (ppm) during the event. The stinger was adjusted multiple times throughout the course of the event to maximize vapor recovery. However, minimal change in the TLV readings was observed. The exhaust stack gas temperatures averaged 182.5 degrees Fahrenheit. Measured depth to groundwater in monitoring well MW-1 at the conclusion of the AFVR event was 28.58 feet below TOC. Measured depth to groundwater 20 minutes post-AFVR was 28.58 feet below TOC. Free product was not detected in monitoring well MW-1 during post-AFVR measurements. A summary of groundwater elevation data collected during AFVR activities is presented in **Table 1**. A summary of free product and AFVR data collected from monitoring well MW-1 during AFVR activities is presented in **Table 2**.

The total estimated amount of petroleum products removed as a vapor, based on eight hours of organic vapor measurements and using a conversion factor of 1.02 for benzene, was 0.15 pounds (0.02 gallons). Approximately 233 gallons of liquid were removed from monitoring well MW-1 during the March 16, 2011 AFVR event. Of the 233 gallons removed, there was no measurable free product detected. Field data sheets, emissions calculations and the disposal manifest for the March 16, 2011 AFVR event are included in **Appendix A**.

### **Well Gauging and Sampling**

Shallow monitoring wells MW-1 through MW-28 and telescoping monitoring wells TW-1 through TW-9 were gauged for depths to groundwater on April 19, 2011. Depths to groundwater measured in the shallow monitoring wells ranged from 15.71 feet (MW-18) to 37.72 feet (MW-20). Groundwater elevations in the shallow monitoring wells, relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level, ranged from 70.70 (MW-9) to 80.38 (MW-28). Based on these data, shallow groundwater generally flowed towards the southwest, south, and north away from the subject site. The horizontal hydraulic gradient measured in the southwestern direction from MW-28 to MW-9 was approximately 0.017 feet per foot. The horizontal hydraulic gradient measured in the southern direction from MW-3 to MW-22 was approximately 0.006 feet per foot. The horizontal hydraulic gradient measured in the northern direction from MW-1 to MW-20 was approximately 0.036 feet per foot. A summary of groundwater elevation data is presented in **Table 4**. A Shallow Groundwater Elevation Map based on the April 2011 data has been included as **Figure 3**.

Depths to groundwater measured in the telescoping monitoring wells ranged from 16.83 feet (TW-7) to 27.11 feet (TW-4). Groundwater elevations in the telescoping monitoring wells, relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level, ranged from 71.50 (TW-3) to 81.30 (TW-7). Based on these data, deep groundwater generally flowed towards the west away from the subject site. The horizontal hydraulic gradient measured in the western direction from TW-7 to TW-3 was approximately 0.018 feet per foot. A summary of groundwater elevation data is presented in **Table 4**. A Deep Groundwater Elevation Map based on the April 2011 data has been included as **Figure 4**.

Shallow monitoring wells MW-3 through MW-12, MW-14, MW-15, MW-20, MW-22, MW-24, and MW-27 were sampled without purging in May 2011, as the water table in these wells was bracketed by the screened interval of each well. Shallow monitoring wells MW-1, MW-2, MW-13, MW-16 through MW-19, MW-21, MW-23, MW-25, MW-26, and MW-28, and telescoping wells TW-1 through TW-9

were purged prior to sampling in May 2011, as the water table in these wells was not bracketed by the screened interval of each well or the screened interval was unknown. Water samples were collected in April and May 2011 from private water supply wells WSW-1 pre-GAC, WSW-1 post-GAC, WSW-2 through WSW-4, WSW-6, WSW-7, WSW-8 pre-GAC, WSW-8 post-GAC, WSW-9 through WSW-11, and WSW-13 through WSW-15. Each water supply well was purged at the sample location for approximately 10 minutes prior to sample collection. Samples could not be collected from private water supply wells WSW-5 and WSW-12 as the power to the well pumps was disconnected but the pumps were still in place in the wells. Water supply well information has been included as **Table 3**.

Additional information pertaining to site conditions and field personnel on site during the sampling event can be found in the Groundwater Sampling Field Data Sheets provided as **Appendix B**. The groundwater samples collected from the monitoring wells and water supply wells were analyzed for BTEX constituents (benzene, toluene, ethylbenzene, total xylenes), methyl-tert-butyl-ether (MTBE), 1,2 DCA, oxygenates, and naphthalene using EPA Method 8260B, and 1,2- Dibromoethane (EDB) using EPA Method 8011.

#### **Chemicals of Concern**

Concentrations of benzene were reported above the SCDHEC May 2001 Risk Based Screening Level (RBSL) in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-4, MW-7, MW-12, MW-13, MW-16, and MW-22. A concentration of toluene was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of ethylbenzene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, and MW-22. A concentration of total xylenes was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of naphthalene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-7, and MW-12. Concentrations of 1,2 DCA were reported above the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-7, MW-12, MW-13, and TW-1. Concentrations of EDB were reported above the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-7, MW-12, MW-13, and MW-22.

Concentrations of toluene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-7, MW-12, MW-13, MW-16, and TW-2. Concentrations of ethylbenzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-7, MW-12, MW-13, and MW-16. Concentrations of total xylenes were reported below the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-4, MW-7, MW-8, MW-12, MW-13, and MW-16. A concentration of MTBE was reported below the RBSL in the groundwater sample collected from monitoring well TW-1. Concentrations of naphthalene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-8, MW-13, and MW-16. Concentrations of 1,2 DCA were reported below the RBSL in the groundwater samples collected from monitoring wells MW-24, MW-27, and TW-6, and water supply well WSW-8 (pre-GAC).

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-5, MW-6, MW-9 through MW-11, MW-14, MW-15, MW-17 through MW-21, MW-23, MW-25, MW-26, MW-28, TW-3 through TW-5, and TW-7 through TW-9, and water supply wells WSW-1 pre-GAC, WSW-1 post-GAC, WSW-2 through WSW-4, WSW-6, WSW-7, WSW-8 post-GAC, WSW-9 through WSW-11, and WSW-13 through WSW-15.

### **Eight Oxygenates**

Concentrations of TAA were reported above the SCDHEC 2008 Action Level in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-8, MW-13, MW-16, and TW-1.

A concentration of DIPE was reported below the Action Level in the groundwater sample collected from monitoring well TW-1. A concentration of TBA was reported below the Action Level in the groundwater sample collected from monitoring well MW-2. A concentration of TAA was reported below the Action Level in the groundwater sample collected from monitoring well MW-2.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-1, MW-4 through MW-6, MW-9 through MW-12, MW-14, MW-15, MW-17 through MW-28, and TW-2 through TW-9, and water supply wells WSW-1 pre-GAC, WSW-1 post-GAC, WSW-2 through WSW-4, WSW-6, WSW-7, WSW-8 pre-GAC, WSW-8 post-GAC, WSW-9 through WSW-11, and WSW-13 through WSW-15.

A summary of the Chemicals of Concern (CoC) data has been included as **Table 5**. A summary of the oxygenate data has been included as **Table 6**. A groundwater quality map showing the contaminants of concern based on the April and May 2011 data has been included as **Figure 5**. A groundwater quality map showing the eight oxygenates based on the April and May 2011 data has been included as **Figure 6**. Groundwater sampling field data sheets from the April and May 2011 sampling event have been included as **Appendix B**. Complete reports of laboratory analyses of groundwater samples collected during the April and May 2011 sampling event, along with chain-of-custody documentation, have been included in **Appendix C**.

### **Investigative Derived Waste**

Investigative derived waste (IDW) generated during the groundwater sampling activities was placed in 55-gallon drums for disposal by a licensed facility. The drums were left onsite and a request for pickup and disposal of the drummed IDW was generated upon completion of the groundwater sampling activities. A copy of the disposal manifest for the drums of purged well water will be forwarded SCDHEC upon our receipt.

### **Conclusions and Recommendations**

The average organic vapor concentration recovered from monitoring well MW-1 during the March AFVR event was 12 ppm. However, product was not detected in this well during post-AFVR gauging one month later during the April 2011 groundwater sampling event. Also, the dissolved concentrations reported in monitoring well MW-1 during the April 2011 groundwater sampling event were relative compared to other impacted site wells and when considering this well has historically contained product. Therefore, AFVRs may be a viable remedial option at this site.

Based on the results of the April 2011 groundwater sampling event, elevated dissolved concentrations exist in monitoring wells onsite and south of the site. AFVR events are recommended to help reduce these concentrations in wells MW-1, MW-3, MW-7, MW-12, MW-13, MW-16, and MW-22. A comprehensive groundwater sampling event is recommended following the AFVR events to determine current conditions and determine the efficacy of the remedial efforts.

Ms. Cathleen Ridgley-SCDHEC  
378 Truck Stop – AFVR & GWS Report  
May 18, 2011

Page 5

If you have any questions or require additional information, please contact ECS at (704) 583-2711, or email [cdupuis@ecsconsult.com](mailto:cdupuis@ecsconsult.com) or [ckennedy@ecsconsult.com](mailto:ckennedy@ecsconsult.com).



## **TABLES**

---

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**AGGRESSIVE FLUID/VAPOR RECOVERY EVENTS**  
**378 TRUCK STOP**

| Well ID | Date Measured                   | Top of Casing Elevation (ft.) | Depth to Groundwater (ft.) | Depth to Free Product (ft.) | Free Product Thickness (ft.) | Groundwater Elevation <sup>2</sup> (ft.) | Well Depth (ft.) | Screened Interval (ft.) |
|---------|---------------------------------|-------------------------------|----------------------------|-----------------------------|------------------------------|--|------------------|-------------------------|
| MW-1    | 3/16/11 (pre-AFVR)              | 101.98                        | 25.55                      | 25.53                       | 0.02                         | 76.45                                    | unknown          | unknown                 |
|         | 3/16/11 (immediately post-AFVR) |                               | 28.58                      | --                          | --                           | 73.40                                    |                  |                         |
|         | 3/16/11 (20 minutes post-AFVR)  |                               | 28.58                      | --                          | --                           | 73.40                                    |                  |                         |
| MW-3    | 3/16/11 (pre-AFVR)              | 101.54                        | 25.86                      | --                          | --                           | 75.68                                    | 40               | 10-40                   |
|         | 3/16/11 (immediately post-AFVR) |                               | 26.13                      | --                          | --                           | 75.41                                    |                  |                         |
|         | 3/16/11 (20 minutes post-AFVR)  |                               | 26.10                      | --                          | --                           | 75.44                                    |                  |                         |
| MW-7    | 3/16/11 (pre-AFVR)              | 99.72                         | 23.44                      | --                          | --                           | 76.28                                    | 34.92            | 19.92-34.92             |
|         | 3/16/11 (immediately post-AFVR) |                               | 22.81                      | --                          | --                           | 76.91                                    |                  |                         |
|         | 3/16/11 (20 minutes post-AFVR)  |                               | 22.89                      | --                          | --                           | 76.83                                    |                  |                         |
| MW-21   | 3/16/11 (pre-AFVR)              | 101.70                        | 24.30                      | --                          | --                           | 77.40                                    | 40.16            | 25.16-40.16             |
|         | 3/16/11 (immediately post-AFVR) |                               | 24.23                      | --                          | --                           | 77.47                                    |                  |                         |
|         | 3/16/11 (20 minutes post-AFVR)  |                               | 24.23                      | --                          | --                           | 77.47                                    |                  |                         |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevation adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.

**TABLE 2**  
**SUMMARY OF AGGRESSIVE FLUID/VAPOR RECOVERY INFORMATION<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID       | Date    | Time <sup>2</sup><br>(hours) | Average<br>Effluent<br>Velocity <sup>3</sup><br>(fpm) | Average<br>Effluent<br>Temperature<br>(°F) | Average<br>Effluent<br>Concentration<br>(ppm) | Total Free<br>Product<br>Volatized <sup>4</sup><br>(gallons) | Total Free<br>Product as<br>Fluid <sup>5</sup><br>(gallons) | Total Free<br>Product<br>Recovered <sup>6</sup><br>(gallons) | Total<br>Fluid<br>Volume<br>removed(<br>gallons) |
|---------------|---------|------------------------------|---|--|---|--|---|--|--|
| MW-1          | 3/16/11 | 8                            | 4,096   | 182.5                                      | 12  | 0.02   | 0   | 0.02   | 233  |
| <b>Totals</b> |         | --                           | --  | --   | --  | 0.02   | 0   | 0.02   | 233  |

Notes:

1. Aggressive Fluid/Vapor Recovery (AFVR) events using vacuum trucks provided by A&D Environmental and Industrial Services, Inc.
2. Duration of the AFVR event at well location.
3. Cross-sectional area of exhaust stack is 0.19 sq. ft.
4. Total Volatized in gallons = Air emissions in pounds/(6.25 lbs./gal.)
5. Total Free Product as Fluid is obtained from disposal manifest and/or correspondence with subcontractors from each AFVR event.
6. Total Free Product Recovered = Total Free Product Volatized + Total Free Product as Fluid.

**TABLE 1**  
**SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES <sup>1</sup>**  
**378 TRUCK STOP**

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes  |
|-----------------------|--|--|--|--------------------------------|--|--|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-7, TW-1, TW-2                                | SITE   |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | Disconnected WSW               | MW-8   | Wooded Area around site, has WSW for site.   |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | WSW-6                          | -  | WSW-6 tag info: Date: 9/14/00, Depth: 400 ft   |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -  |
| 108-00-00-036-000     | Horace Baker                                 | 745 Hwy 378 East, Edgefield, SC 29824        | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft   |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -  |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -  |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | MW-18  | -  |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.  |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-17, MW-19, TW-7, TW-8                                     | -  |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied   |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-13, TW-5                                    | WSW-1 tag info: Date: 12/91, Depth: 280 ft   |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-14 and MW-15  | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16 and TW-6   | -  |
| 109-00-01-006-000     | Ulysess Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-13                         | -  | -  |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -  |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12                         | -  | -  |
| 109-00-01-010-000     | Mitchell Luther Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -  |
| 109-00-01-011-000     | Benne Culbreath                              | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10 and TW-4   | -  |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 722 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -  |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -  |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -  |

Notes:

1. Adjacent/adjoining properties are keyed into Figure 2.

**TABLE 2**  
**SUMMARY OF SOIL ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Sample ID          | Date    | Depth (feet) | PID Reading (ppm) | Benzene (mg/kg)      | Toluene (mg/kg)       | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Naphthalene (mg/kg) |
|--------------------|---------|--------------|-------------------|----------------------|-----------------------|----------------------|-----------------|---------------------|
| MW-6 <sup>1</sup>  | 10/5/10 | 5            | 1.5               | <0.0055 <sup>2</sup> | <0.0055               | <0.0055              | <0.0166         | <0.0055             |
| MW-7 <sup>1</sup>  | 10/4/10 | 10           | 387               | <0.0447              | 0.0346 J <sup>3</sup> | 0.0314 J             | 0.1867          | 0.0258 J            |
| MW-8 <sup>1</sup>  | 10/6/10 | 20           | 0.3               | <0.0055              | <0.0055               | <0.0055              | <0.0165         | <0.0055             |
| MW-12 <sup>4</sup> | 10/7/10 | 20           | 156               | <0.0053              | <0.0053               | <0.0053              | <0.0159         | 0.0016 J            |
| MW-13 <sup>4</sup> | 10/5/10 | 20           | 92.3              | <0.0047              | <0.0047               | <0.0047              | <0.0141         | <0.0047             |
|                    |         |              | RBSL <sup>5</sup> | 0.0007               | 1.450                 | 1.150                | 14.500          | 0.036               |

Notes:

1. Soil samples collected every 5 vertical ft during installation of shallow groundwater monitoring wells. Sample depth from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis.
2. Less than the laboratory reporting limit.
3. Estimated value between the method detection limit and laboratory reporting limit.
4. Soil samples collected during installation of shallow groundwater monitoring wells due to observed odor and subsequent PID readings.
5. May 2001 SCDHEC Risk Based Screening Level for sandy soils.

**TABLE 3  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES<sup>1</sup>  
378 TRUCK STOP**

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O Whitmer                  | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-6, MW 21, TW-1, TW-2                         | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | WSW-6 & Disconnected WSW       | MW-7, MW-8, MW-20, MW-27, MW-28                              | Wooded Area around site; WSW-6 tag info: Date 9/14/00, Depth: 400 ft.                                 |
| 108-00-00-034-000     | Shirley Jean Smith                           | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | no WSWs identified             | -  | -   |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | 21st Mortgage Corporation                    | 620 Market Street #100, Knoxville TN 37902   | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5 (disconnected)           | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft, well disconnected from power since 12/8/10 visit        |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley Jean Smith                           | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | -  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-18  | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | -  | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7         | WSW-1 tag info Date: 12/91, Depth: 280 ft   |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-19 and TW-8   | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16, MW-25, TW-6   | -   |
| 109-00-01-004-000     | JG and JP Owdom                              | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | MW-26 and TW-9   | -   |
| 109-00-01-006-000     | Ulysses Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | no WSWs identified             | -  | -   |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | -  | -   |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12 and WSW-13              | -  | WSW-12 disconnected from power during April 2011 visit  |
| 109-00-01-010-000     | Luther Mitchell Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10, MW-24, TW-4, abandoned TW-10                          | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 724 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | -   |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | Resident stated WSW-9 was installed to 58 ft  |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | Resident stated WSW-15 was installed to 360 ft  |

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA <sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured         | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|-----------------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-1    | 5/25/10 <sup>3</sup>  | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|         | 10/18/10 <sup>4</sup> | 101.98                       | 26.50                      | 26.54                      | 0.04                        | 75.47                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 21.70                      | --                          | 80.28                                    | 44.81           |                        |
| MW-2    | 5/25/10               | 101.02                       | --                         | 16.82                      | --                          | 84.20                                    | 41.72           | unknown                |
|         | 10/18/10              | 100.99                       | --                         | 27.10                      | --                          | 73.89                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 23.34                      | --                          | 77.65                                    |                 |                        |
| MW-3    | 5/25/10               | 101.46                       | --                         | 17.28                      | --                          | 84.18                                    | 40              | 10-40                  |
|         | 10/18/10              | 101.54                       | --                         | 27.58                      | --                          | 73.96                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 23.78                      | --                          | 77.76                                    |                 |                        |
| MW-4    | 5/25/10               | 100.50                       | --                         | 16.35                      | --                          | 84.15                                    | 40              | 10-40                  |
|         | 10/18/10              | 100.48                       | --                         | 26.20                      | --                          | 74.28                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 22.12                      | --                          | 78.36                                    |                 |                        |
| MW-5    | 5/25/10               | 104.21                       | --                         | 27.30                      | --                          | 76.91                                    | 40              | 20-40                  |
|         | 10/18/10              | 104.18                       | --                         | 30.24                      | --                          | 73.94                                    |                 |                        |
|         | 4/19/11               |                              | --                         | 27.63                      | --                          | 76.55                                    |                 |                        |
| MW-6    | 10/18/10              | 102.25                       | --                         | 28.01                      | --                          | 74.24                                    | 35.05           | 20.05-35.05            |
|         | 4/19/11               |                              | --                         | 23.06                      | --                          | 79.19                                    |                 |                        |
| MW-7    | 10/18/10              | 99.72                        | --                         | 25.10                      | --                          | 74.62                                    | 34.92           | 19.92-34.92            |
|         | 4/19/11               |                              | --                         | 21.04                      | --                          | 78.68                                    |                 |                        |
| MW-8    | 10/18/10              | 99.92                        | --                         | 25.45                      | --                          | 74.47                                    | 35.08           | 20.08-35.08            |
|         | 4/19/11               |                              | --                         | 22.51                      | --                          | 77.41                                    |                 |                        |
| MW-9    | 10/18/10              | 94.83                        | --                         | 30.31                      | --                          | 64.52                                    | 35.17           | 20.17-35.17            |
|         | 4/19/11               |                              | --                         | 24.13                      | --                          | 70.70                                    |                 |                        |
| MW-10   | 10/18/10              | 99.12                        | --                         | 29.73                      | --                          | 69.39                                    | 40.16           | 25.16-40.16            |
|         | 4/19/11               |                              | --                         | 26.18                      | --                          | 72.94                                    |                 |                        |
| MW-11   | 10/18/10              | 102.61                       | --                         | 28.75                      | --                          | 73.86                                    | 35.23           | 20.23-35.23            |
|         | 4/19/11               |                              | --                         | 25.59                      | --                          | 77.02                                    |                 |                        |
| MW-12   | 10/18/10              | 103.46                       | --                         | 29.63                      | --                          | 73.83                                    | 34.99           | 19.99-34.99            |
|         | 4/19/11               |                              | --                         | 26.11                      | --                          | 77.35                                    |                 |                        |
| MW-13   | 10/18/10              | 101.48                       | --                         | 27.63                      | --                          | 73.85                                    | 40.19           | 25.19-40.19            |
|         | 4/19/11               |                              | --                         | 23.50                      | --                          | 77.98                                    |                 |                        |
| MW-14   | 10/18/10              | 103.48                       | --                         | 29.99                      | --                          | 73.49                                    | 39.74           | 24.74-39.74            |
|         | 4/19/11               |                              | --                         | 28.52                      | --                          | 74.96                                    |                 |                        |
| MW-15   | 10/18/10              | 103.16                       | --                         | 30.32                      | --                          | 72.84                                    | 40.13           | 25.13-40.13            |
|         | 4/19/11               |                              | --                         | 25.18                      | --                          | 77.98                                    |                 |                        |
| MW-16   | 10/18/10              | 101.32                       | --                         | 30.79                      | --                          | 70.53                                    | 40.11           | 25.11-40.11            |
|         | 4/19/11               |                              | --                         | 24.59                      | --                          | 76.73                                    |                 |                        |
| MW-17   | 10/18/10              | 98.40                        | --                         | 23.74                      | --                          | 74.66                                    | 35.02           | 20.02-35.02            |
|         | 4/19/11               |                              | --                         | 18.20                      | --                          | 80.20                                    |                 |                        |

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID            | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|--------------------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-18              | 10/18/10      | 95.05                        | --                         | 22.02                      | --                          | 73.03                                    | 35.67           | 20.67-35.67            |
|                    | 4/19/11       |                              | --                         | 15.71                      | --                          | 79.34                                    |                 |                        |
| MW-19              | 10/18/10      | 101.07                       | --                         | 27.62                      | --                          | 73.45                                    | 38.57           | 23.57-38.57            |
|                    | 4/19/11       |                              | --                         | 21.63                      | --                          | 79.44                                    |                 |                        |
| MW-20 <sup>5</sup> | 12/6/10       | 110.52                       | --                         | 41.77                      | --                          | 68.75                                    | 45.05           | 30.05-45.05            |
|                    | 4/19/11       |                              | --                         | 37.72                      | --                          | 72.80                                    |                 |                        |
| MW-21              | 12/6/10       | 101.70                       | --                         | 32.66                      | --                          | 69.04                                    | 40.16           | 25.16-40.16            |
|                    | 4/19/11       |                              | --                         | 24.19                      | --                          | 77.51                                    |                 |                        |
| MW-22              | 12/6/10       | 105.13                       | --                         | 34.95                      | --                          | 70.18                                    | 40.09           | 25.09-40.09            |
|                    | 4/19/11       |                              | --                         | 28.56                      | --                          | 76.57                                    |                 |                        |
| MW-23              | 12/6/10       | 100.01                       | --                         | 29.26                      | --                          | 70.75                                    | 37.24           | 22.24-37.24            |
|                    | 4/19/11       |                              | --                         | 19.69                      | --                          | 80.32                                    |                 |                        |
| MW-24              | 12/6/10       | 99.08                        | --                         | 32.25                      | --                          | 66.83                                    | 40.13           | 25.13-40.13            |
|                    | 4/19/11       |                              | --                         | 25.58                      | --                          | 73.50                                    |                 |                        |
| MW-25              | 12/6/10       | 101.54                       | --                         | 32.00                      | --                          | 69.54                                    | 39.98           | 24.98-39.98            |
|                    | 4/19/11       |                              | --                         | 23.44                      | --                          | 78.10                                    |                 |                        |
| MW-26              | 12/6/10       | 97.25                        | --                         | 29.08                      | --                          | 68.17                                    | 38.74           | 23.74-38.74            |
|                    | 4/19/11       |                              | --                         | 21.07                      | --                          | 76.18                                    |                 |                        |
| MW-27              | 12/6/10       | 97.20                        | --                         | 28.48                      | --                          | 68.72                                    | 35.10           | 20.10-35.10            |
|                    | 4/19/11       |                              | --                         | 24.42                      | --                          | 72.78                                    |                 |                        |
| MW-28              | 12/6/10       | 101.29                       | --                         | 33.39                      | --                          | 67.90                                    | 40.03           | 25.03-40.03            |
|                    | 4/19/11       |                              | --                         | 20.91                      | --                          | 80.38                                    |                 |                        |
| TW-1               | 10/18/10      | 101.83                       | --                         | 28.44                      | --                          | 73.39                                    | 63.27           | 58.27-63.27            |
|                    | 4/19/11       |                              | --                         | 25.53                      | --                          | 76.30                                    |                 |                        |
| TW-2               | 10/18/10      | 101.97                       | --                         | 29.57                      | --                          | 72.40                                    | 80.23           | 75.23-80.23            |
|                    | 4/19/11       |                              | --                         | 23.83                      | --                          | 78.14                                    |                 |                        |
| TW-3               | 10/18/10      | 95.33                        | --                         | 25.39                      | --                          | 69.94                                    | 80.62           | 75.62-80.62            |
|                    | 4/19/11       |                              | --                         | 23.83                      | --                          | 71.50                                    |                 |                        |
| TW-4               | 10/18/10      | 99.23                        | --                         | 43.13                      | --                          | 56.10                                    | 68.56           | 63.56-68.56            |
|                    | 4/19/11       |                              | --                         | 27.11                      | --                          | 72.12                                    |                 |                        |
| TW-5               | 10/18/10      | 103.62                       | --                         | 29.69                      | --                          | 73.93                                    | 58.38           | 53.38-58.38            |
|                    | 4/19/11       |                              | --                         | 25.96                      | --                          | 77.66                                    |                 |                        |
| TW-6               | 10/18/10      | 101.29                       | --                         | 31.22                      | --                          | 70.07                                    | 58.55           | 53.55-58.55            |
|                    | 4/19/11       |                              | --                         | 25.25                      | --                          | 76.04                                    |                 |                        |
| TW-7               | 10/18/10      | 98.13                        | --                         | 50.90                      | --                          | 47.23                                    | 58.94           | 53.94-58.94            |
|                    | 4/19/11       |                              | --                         | 16.83                      | --                          | 81.30                                    |                 |                        |

*28 sh.  
9 deep.*



**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA <sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|---------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| TW-8    | 10/18/10      | 101.03                       | --                         | 28.18                      | --                          | 72.85                                    | 58.53           | 53.53-58.53            |
|         | 4/19/11       |                              | --                         | 22.19                      | --                          | 78.84                                    |                 |                        |
| TW-9    | 12/6/10       | 96.92                        | --                         | 28.96                      | --                          | 67.96                                    | 80.12           | 75.12-80.12            |
|         | 4/19/11       |                              | --                         | 21.14                      | --                          | 75.78                                    |                 |                        |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where applicable, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.

**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|--------------------|-------------------|---------------------|----------------------|-------------|--------------------|-----------------|------------|-------------------|
| MW-1    | 5/25/10     | Free Product       |                   |                     |                      |             |                    |                 |            |                   |
|         | 10/18/10    | Free Product       |                   |                     |                      |             |                    |                 |            |                   |
| MW-2    | 5/25/10     | 109 <sup>2</sup>   | <5.0 <sup>3</sup> | 114                 | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035      | NR                |
|         | 10/19/10    | 1.7 J <sup>5</sup> | <5.0              | <5.0                | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020     | NR                |
| MW-3    | 5/25/10     | 239                | 139               | 815                 | 4,800                | <5.0        | 285                | 126             | 0.099      | 28.9              |
|         | 10/18/10    | 6,820              | 343               | 981                 | 6,260                | 3.4 J       | 449                | 561             | 0.31       | NR                |
| MW-4    | 5/25/10     | 2.9 J              | <5.0              | 1.4 J               | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020     | 62.8              |
|         | 10/18/10    | 5.7                | <5.0              | <5.0                | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020     | NR                |
| MW-5    | 5/25/10     | 3.6 J              | 1.8 J             | 4.0 J               | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020     | 11.8              |
|         | 10/18/10    | 102                | <5.0              | 4.1 J               | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020     | NR                |
| MW-6    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020     | <5.0              |
| MW-7    | 10/19/10    | 12.9               | 4.6 J             | 3.2 J               | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40       | <5.0              |
| MW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-9    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-10   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| MW-11   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 1.3 J           | <0.020     | <5.0              |
| MW-12   | 10/19/10    | 387                | 1,210             | 120                 | 2,650                | <5.0        | 187                | 24.7            | 4.8        | <5.0              |
| MW-13   | 10/19/10    | 333                | 109               | 58.3                | 282                  | <10.0       | 10.1               | 61.9            | 0.022      | <5.0              |
| MW-14   | 10/19/10    | <5.0               | <5.0              | 2.5 J               | 9.5 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| MW-15   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 3.0 J           | <0.020     | <5.0              |
| MW-16   | 10/19/10    | 246                | 26.1              | 14.3                | 229.2                | <5.0        | <5.0               | 2.5 J           | <0.020     | <5.0              |
| MW-17   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | 4.3 J             |
| MW-18   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| MW-19   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-1    | 10/18/10    | <5.0               | <5.0              | <5.0                | <15.0                | 5.7         | <5.0               | 64.2            | <0.020     | <5.0              |
| TW-2    | 10/19/10    | <5.0               | 3.4 J             | <5.0                | 2.8 J                | <5.0        | <5.0               | 4.2 J           | <0.020     | <5.0              |
| TW-3    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-4    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | 2.9 J       | <5.0               | <5.0            | <0.019     | <5.0              |
| TW-5    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 1.7 J           | <0.020     | <5.0              |
| TW-6    | 10/19/10    | 1.5 J              | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 5.1             | <0.020     | <5.0              |
| TW-7    | 10/19/10    | <5.0               | 1.9 J             | <5.0                | 5.6 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
| TW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
| WSW-1   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | 2.1 J           | <0.020     | NR                |
| WSW-2   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| WSW-3   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| WSW-4   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| WSW-5   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | NR                |
| WSW-6   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| WSW-7   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| WSW-8   | 10/19/10    | <5.0               | <5.0              | <5.0                | <15.0                | 3.6 J       | <5.0               | 9.2             | <0.020     | NR                |

**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| WSW-9   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-10  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-11  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-12  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-13  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     | NR                |
| WSW-14  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     | NR                |
| WSW-15  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|         | RBSL <sup>6</sup> | 5              | 1,000          | 700                 | 10,000               | 40          | 25                 | 5              | 0.05       | 15                |

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. May 2001 Risk-Based Screening Level.

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID | Date Sampled               | Ethanol (ug/L)      | Ethyl tert Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert-Amyl Alcohol (TAA) (ug/L) | tert-Butyl Formate (TBF) (ug/L) |
|---------|----------------------------|---------------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|
| MW-1    | 10/18/10                   | <b>Free Product</b> |                                      |                                  |                                |                                     |                                      |                                |                                 |
| MW-2    | 10/19/10                   | <200 <sup>2</sup>   | <10.0                                | <5.0                             | <100                           | 254                                 | <10.0                                | <100                           | <50.0                           |
| MW-3    | 10/18/10                   | <200                | <10.0                                | 55.7                             | <100                           | 773                                 | <10.0                                | <b>12,900<sup>3</sup></b>      | <50.0                           |
| MW-4    | 10/18/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 199                            | <50.0                           |
| MW-5    | 10/18/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 168                            | <50.0                           |
| MW-6    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 131                            | <50.0                           |
| MW-7    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-8    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-9    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-10   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-11   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-12   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | 83.0 J <sup>4</sup>                 | <10.0                                | <b>267</b>                     | <50.0                           |
| MW-13   | 10/19/10                   | <400                | <20.0                                | <10.0                            | <200                           | <200                                | <20.0                                | <b>1,260</b>                   | <100                            |
| MW-14   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-15   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-16   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>360</b>                     | <50.0                           |
| MW-17   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-18   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| MW-19   | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-1    | 10/18/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>1,180</b>                   | <50.0                           |
| TW-2    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>95.4 J</b>                  | <50.0                           |
| TW-3    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-4    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-5    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-6    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-7    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
| TW-8    | 10/19/10                   | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                           | <50.0                           |
|         | Action Levels <sup>5</sup> | 10,000              | 47                                   | 150                              | NA                             | 1,400                               | 128                                  | 240                            | NA                              |

Notes:

1. Analyses for 8 oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
- 5 Action Levels based on SCDHEC Revision 1 dated 8/22/08

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA <sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L)     | Toluene (ug/L)    | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L)  | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|--------------------|-------------------|----------------------|----------------------|-------------|--------------------|-----------------|------------|-------------------|
| MW-1    | 5/25/10     | Free Product       |                   |                      |                      |             |                    |                 |            |                   |
|         | 10/18/10    | Free Product       |                   |                      |                      |             |                    |                 |            |                   |
|         | 4/19/11     | 456                | 210               | 1,010                | 4,700                | <50.0       | 277                | <50.0           | 1.2        | NR                |
| MW-2    | 5/25/10     | 109 <sup>2</sup>   | <5.0 <sup>3</sup> | 114                  | 312                  | <5.0        | 50.6               | NR <sup>4</sup> | 0.035      | NR                |
|         | 10/19/10    | 1.7 J <sup>5</sup> | <5.0              | <5.0                 | 2.9 J                | <5.0        | <5.0               | 24.8            | <0.020     | NR                |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 28.5            | <0.020     | NR                |
| MW-3    | 5/25/10     | 239                | 139               | 815                  | 4,800                | <5.0        | 285                | 126             | 0.099      | 28.9              |
|         | 10/18/10    | 6,820              | 343               | 981                  | 6,260                | 3.4 J       | 449                | 561             | 0.31       | NR                |
|         | 4/19/11     | 7,300              | 253               | 921                  | 5,060                | <250        | 342                | 542             | 0.30       | NR                |
| MW-4    | 5/25/10     | 2.9 J              | <5.0              | 1.4 J                | <15.0                | <5.0        | 12.7               | 3.5 J           | <0.020     | 62.8              |
|         | 10/18/10    | 5.7                | <5.0              | <5.0                 | <15.0                | 3.0 J       | 3.7 J              | 4.8 J           | <0.020     | NR                |
|         | 4/20/11     | 16.4               | <5.0              | 6.0                  | 14.0                 | <5.0        | 9.3                | <5.0            | <0.020     | NR                |
| MW-5    | 5/25/10     | 3.6 J              | 1.8 J             | 4.0 J                | 22.3                 | <5.0        | <5.0               | 4.8 J           | <0.020     | 11.8              |
|         | 10/18/10    | 102                | <5.0              | 4.1 J                | 135.9                | 3.2 J       | 43.5               | 6.6             | <0.020     | NR                |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-6    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | 3.0 J       | <5.0               | 3.5 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-7    | 10/19/10    | 12.9               | 4.6 J             | 3.2 J                | 34.2 J               | <5.0        | <5.0               | 4.6 J           | 0.40       | <5.0              |
|         | 4/20/11     | 794                | 108               | 410                  | 2,536                | <5.0        | 116                | 66.6            | 6.9        | NR                |
| MW-8    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | 4.0 J                | <5.0        | 2.2 J              | <5.0            | <0.020     | NR                |
| MW-9    | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/19/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-10   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.019     | <5.0              |
|         | 4/19/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-11   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 1.3 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-12   | 10/19/10    | 387                | 1,210             | 120                  | 2,650                | <5.0        | 187                | 24.7            | 4.8        | <5.0              |
|         | 4/20/11     | 1,360              | 987               | 462                  | 1,659                | <50.0       | 91.3               | 75.7            | 6.0        | NR                |
| MW-13   | 10/19/10    | 333                | 109               | 58.3                 | 282                  | <10.0       | 10.1               | 61.9            | 0.022      | <5.0              |
|         | 4/20/11     | 376                | 46.8              | 31.2                 | 394                  | <12.5       | 11.7 J             | 57.0            | 0.074      | NR                |
| MW-14   | 10/19/10    | <5.0               | <5.0              | 2.5 J                | 9.5 J                | <5.0        | <5.0               | <5.0            | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-15   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | 3.0 J           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |
| MW-16   | 10/19/10    | 246                | 26.1              | 14.3                 | 229.2                | <5.0        | <5.0               | 2.5 J           | <0.020     | <5.0              |
|         | 4/19/11     | 158                | 8.5               | 2.5 J                | 96.2                 | <5.0        | 5.8                | <5.0            | <0.020     | NR                |
| MW-17   | 10/19/10    | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | 4.3 J             |
|         | 4/20/11     | <5.0               | <5.0              | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0            | <0.020     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L)  | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------|----------------|----------------|---------------------|----------------------|--------------|--------------------|----------------|------------|-------------------|
| MW-18   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.019     | NR                |
| MW-19   | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| MW-20   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| MW-21   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/21/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| MW-22   | 12/6/10     | <b>11,900</b>  | <b>29,500</b>  | <b>1,800</b>        | <b>11,400</b>        | <100         | <b>522</b>         | <b>463</b>     | <b>122</b> | <b>15.3</b>       |
|         | 4/20/11     | <b>8,690</b>   | <b>20,600</b>  | <b>1,870</b>        | <b>11,070</b>        | <1,250       | <1,250             | <1,250         | <b>119</b> | NR                |
| MW-23   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| MW-24   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>6.7</b>     | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>4.1 J</b>   | <0.020     | NR                |
| MW-25   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| MW-26   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| MW-27   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>6.4</b>     | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>2.6 J</b>   | <0.020     | NR                |
| MW-28   | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/21/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.019     | NR                |
| TW-1    | 10/18/10    | <5.0           | <5.0           | <5.0                | <15.0                | <b>5.7</b>   | <5.0               | <b>64.2</b>    | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <b>5.0</b>   | <5.0               | <b>48.9</b>    | <0.020     | NR                |
| TW-2    | 10/19/10    | <5.0           | <b>3.4 J</b>   | <5.0                | <b>2.8 J</b>         | <5.0         | <5.0               | <b>4.2 J</b>   | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <b>1.6 J</b>   | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| TW-3    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| TW-4    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <b>2.9 J</b> | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| TW-5    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>1.7 J</b>   | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| TW-6    | 10/19/10    | <b>1.5 J</b>   | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>5.1</b>     | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <b>3.6 J</b>   | <0.020     | NR                |
| TW-7    | 10/19/10    | <5.0           | <b>1.9 J</b>   | <5.0                | <b>5.6 J</b>         | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| TW-8    | 10/19/10    | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.019     | <5.0              |
|         | 4/20/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |
| TW-9    | 12/6/10     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | <5.0              |
|         | 4/19/11     | <5.0           | <5.0           | <5.0                | <15.0                | <5.0         | <5.0               | <5.0           | <0.020     | NR                |



**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID                       | Sample Date | Benzene (ug/L)                                      | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|-------------------------------|-------------|---|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| TW-10 <sup>6</sup>            | 12/2/10     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | 2.9 J              | <5.0           | <0.020     | NR                |
| WSW-1                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     | NR                |
| WSW-1<br>pre GAC <sup>7</sup> | 11/18/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.5 J          | <0.019     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-1<br>post GAC             | 11/18/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-2                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/20/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-3                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 5/3/11      | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-4                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-5                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 4/21/11     | Well pump not operational, could not collect sample |                |                      |                      |             |                    |                |            |                   |
| WSW-6                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-7                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-8                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | 3.6 J       | <5.0               | 9.2            | <0.020     | NR                |
| WSW-8<br>pre GAC <sup>8</sup> | 11/12/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 7.5            | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | 2.9 J          | <0.020     | NR                |
| WSW-8<br>post GAC             | 11/12/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-9                         | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-10                        | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
| WSW-11                        | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-12                        | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | Well pump not operational, could not collect sample |                |                      |                      |             |                    |                |            |                   |
| WSW-13                        | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
| WSW-14                        | 10/19/10    | <5.0  | <5.0           | <5.0                 | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     | NR                |
|                               | 4/21/11     | <5.0  | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |

**TABLE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA <sup>1</sup>**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethyl-benzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | Total Lead (ug/L) |
|---------|-------------------|----------------|----------------|----------------------|----------------------|-------------|--------------------|----------------|------------|-------------------|
| WSW-15  | 10/19/10          | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     | NR                |
|         | 4/21/11           | <5.0           | <5.0           | <5.0                 | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     | NR                |
|         | RBSL <sup>9</sup> | 5              | 1,000          | 700                  | 10,000               | 40          | 25                 | 5              | 0.05       | 15                |

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
7. WSW-1 GAC installed on 11/18/10.
8. WSW-8 GAC installed on 11/12/10.
9. May 2001 Risk-Based Screening Level.



**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID | Date Sampled | Ethanol (ug/L)      | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert- Amyl Alcohol (TAA) (ug/L) | tert- Butyl Formate (TBF) (ug/L) |
|---------|--------------|---------------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|----------------------------------|
| MW-1    | 10/18/10     | <b>Free Product</b> |                                      |                                  |                                |                                     |                                      |                                 |                                  |
|         | 4/19/11      | <2,000              | <100                                 | <50.0                            | <1,000                         | <1,000                              | <100                                 | <1,000                          | <500                             |
| MW-2    | 10/19/10     | <200 <sup>2</sup>   | <10.0                                | <5.0                             | <100                           | 254                                 | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | 336                                 | <10.0                                | 96.2 J                          | <50.0                            |
| MW-3    | 10/18/10     | <200                | <10.0                                | 55.7                             | <100                           | 773                                 | <10.0                                | 12,900 <sup>3</sup>             | <50.0                            |
|         | 4/19/11      | <10,000             | <500                                 | <250                             | <5,000                         | <5,000                              | <500                                 | 13,800                          | <2,500                           |
| MW-4    | 10/18/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 199                             | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-5    | 10/18/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 168                             | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-6    | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 131                             | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-7    | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 2,650                           | <50.0                            |
| MW-8    | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 244                             | <50.0                            |
| MW-9    | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/19/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-10   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/19/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-11   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-12   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | 83.0 J <sup>4</sup>                 | <10.0                                | 267                             | <50.0                            |
|         | 4/20/11      | <2,000              | <100                                 | <50.0                            | <1,000                         | <1,000                              | <100                                 | <1,000                          | <500                             |
| MW-13   | 10/19/10     | <400                | <20.0                                | <10.0                            | <200                           | <200                                | <20.0                                | 1,260                           | <100                             |
|         | 4/20/11      | <500                | <25.0                                | <12.5                            | <250                           | <250                                | <25.0                                | 1,210                           | <125                             |
| MW-14   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-15   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-16   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 360                             | <50.0                            |
|         | 4/19/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 321                             | <50.0                            |
| MW-17   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-18   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-19   | 10/19/10     | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-20   | 12/6/10      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|         | 4/20/11      | <200                | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                       | Date Sampled | Ethanol (ug/L) | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert- Amyl Alcohol (TAA) (ug/L) | tert- Butyl Formate (TBF) (ug/L) |
|-------------------------------|--------------|----------------|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|----------------------------------|
| MW-21                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/21/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-22                         | 12/6/10      | <4,000         | <200                                 | <100                             | <2,000                         | <2,000                              | <200                                 | 9,730                           | <1,000                           |
|                               | 4/20/11      | <50,000        | <2,500                               | <1,250                           | <25,000                        | <25,000                             | <2,500                               | <25,000                         | <12,500                          |
| MW-23                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-24                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-25                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-26                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-27                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| MW-28                         | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/21/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-1                          | 10/18/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 1,180                           | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | 1.8 J                            | <100                           | <100                                | <10.0                                | 1,000                           | <50.0                            |
| TW-2                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | 95.4 J                          | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-3                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-4                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-5                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-6                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-7                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-8                          | 10/19/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-9                          | 12/6/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/19/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| TW-10 <sup>5</sup>            | 12/2/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-1<br>pre GAC <sup>6</sup> | 11/18/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-1<br>post GAC             | 11/18/10     | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-2                         | 12/8/10      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                               | 4/20/11      | <200           | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |

**TABLE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA<sup>1</sup>**  
**EIGHT OXYGENATES**  
**378 TRUCK STOP**

| Well ID                    | Date Sampled               | Ethanol (ug/L)   | Ethyl tert-Butyl Ether (ETBE) (ug/L) | Di-isopropyl Ether (DIPE) (ug/L) | 3,3- Dimethyl-1-Butanol (ug/L) | Tertiary Butyl Alcohol (TBA) (ug/L) | Tert-Amyl Methyl Ether (TAME) (ug/L) | tert- Amyl Alcohol (TAA) (ug/L) | tert- Butyl Formate (TBF) (ug/L) |
|----------------------------|----------------------------|--|--------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|----------------------------------|
| WSW-3                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 5/3/11                     | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-4                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-5                      | 12/8/10                    | Not sampled for oxygenates. Well pump electric disconnected. |                                      |                                  |                                |                                     |                                      |                                 |                                  |
|                            | 4/21/11                    | Well pump not operational, could not collect sample          |                                      |                                  |                                |                                     |                                      |                                 |                                  |
| WSW-6                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-7                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-8 pre GAC <sup>7</sup> | 11/12/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <b>262</b>                      | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-8 post GAC             | 11/12/10                   | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-9                      | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-10                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-11                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-12                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | Well pump not operational, could not collect sample          |                                      |                                  |                                |                                     |                                      |                                 |                                  |
| WSW-13                     | 12/8/10                    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.    |                                      |                                  |                                |                                     |                                      |                                 |                                  |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-14                     | 12/8/10                    | Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.    |                                      |                                  |                                |                                     |                                      |                                 |                                  |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
| WSW-15                     | 12/8/10                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | 4/21/11                    | <200   | <10.0                                | <5.0                             | <100                           | <100                                | <10.0                                | <100                            | <50.0                            |
|                            | Action Levels <sup>8</sup> | 10,000   | 47                                   | 150                              | NA                             | 1,400                               | 128                                  | 240                             | NA                               |

Notes:

1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊖ Abandoned Telescoping Monitoring Well
- ⊗ Water Supply Well
- MW-1 Well I.D.
- (73.71) Groundwater Elevation
- Water Table Contour (Dashed where inferred)
- Flow Direction Indicator

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on April 19, 2011.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

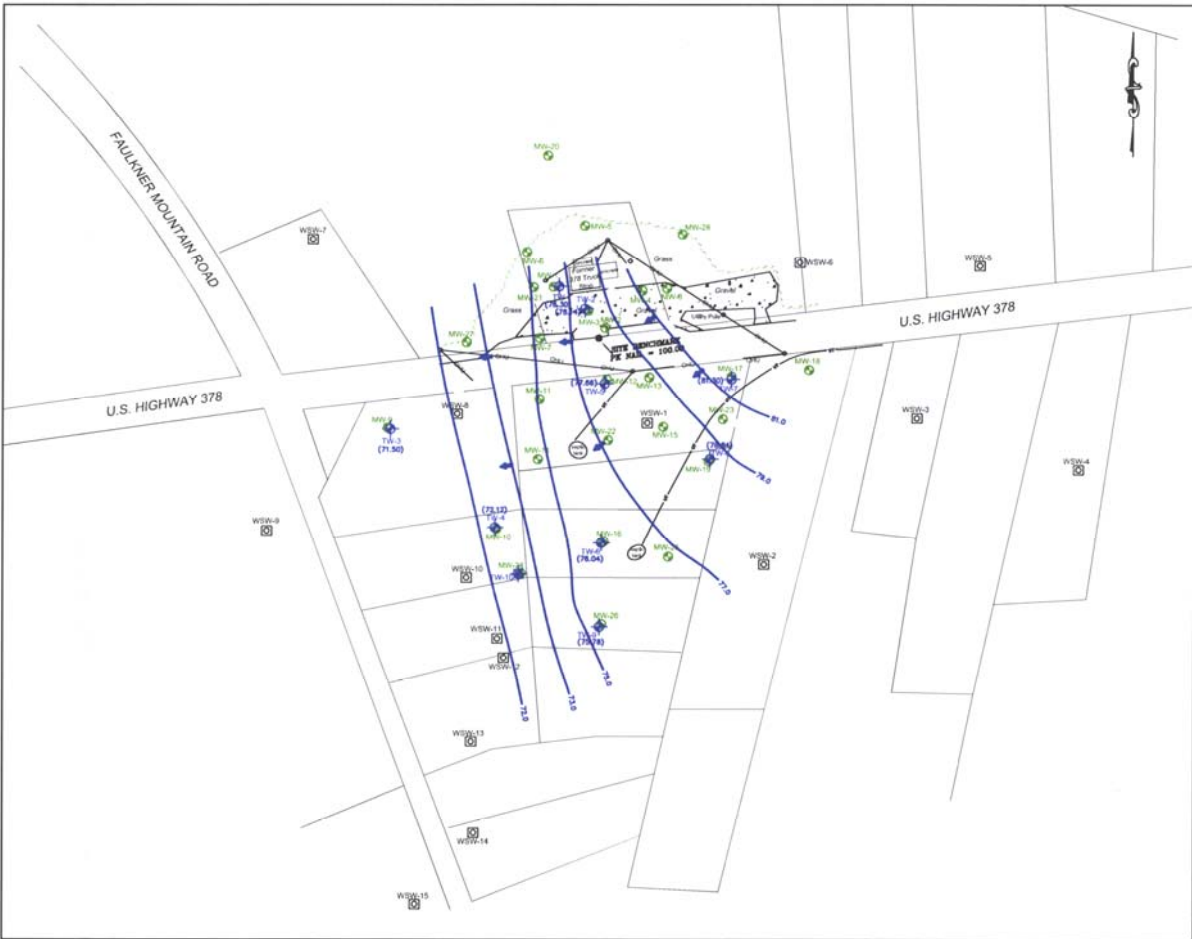
**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1304 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)583-2711 FAX (704)583-2744

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Groundwater Elevation Map - Shallow**  
 Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 1" = 150'

| DESIGNED BY | DRAWN BY | CHECKED BY | APPROVED BY |
|-------------|----------|------------|-------------|
| CD          | CD       | CD         | CD          |
| SCALE       | DATE     | JOB NO.    | FIGURE NO.  |
| 1"=150'     | 5/2/11   | 14-214210  | 3           |



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊖ Abandoned Telescoping Monitoring Well
- ⊙ Water Supply Well
- MW-1 Well I.D.

(73.71) Groundwater Elevation

90.00 Water Table Contour (Dashed where inferred)

→ Flow Direction Indicator

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or local conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on April 19, 2011.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

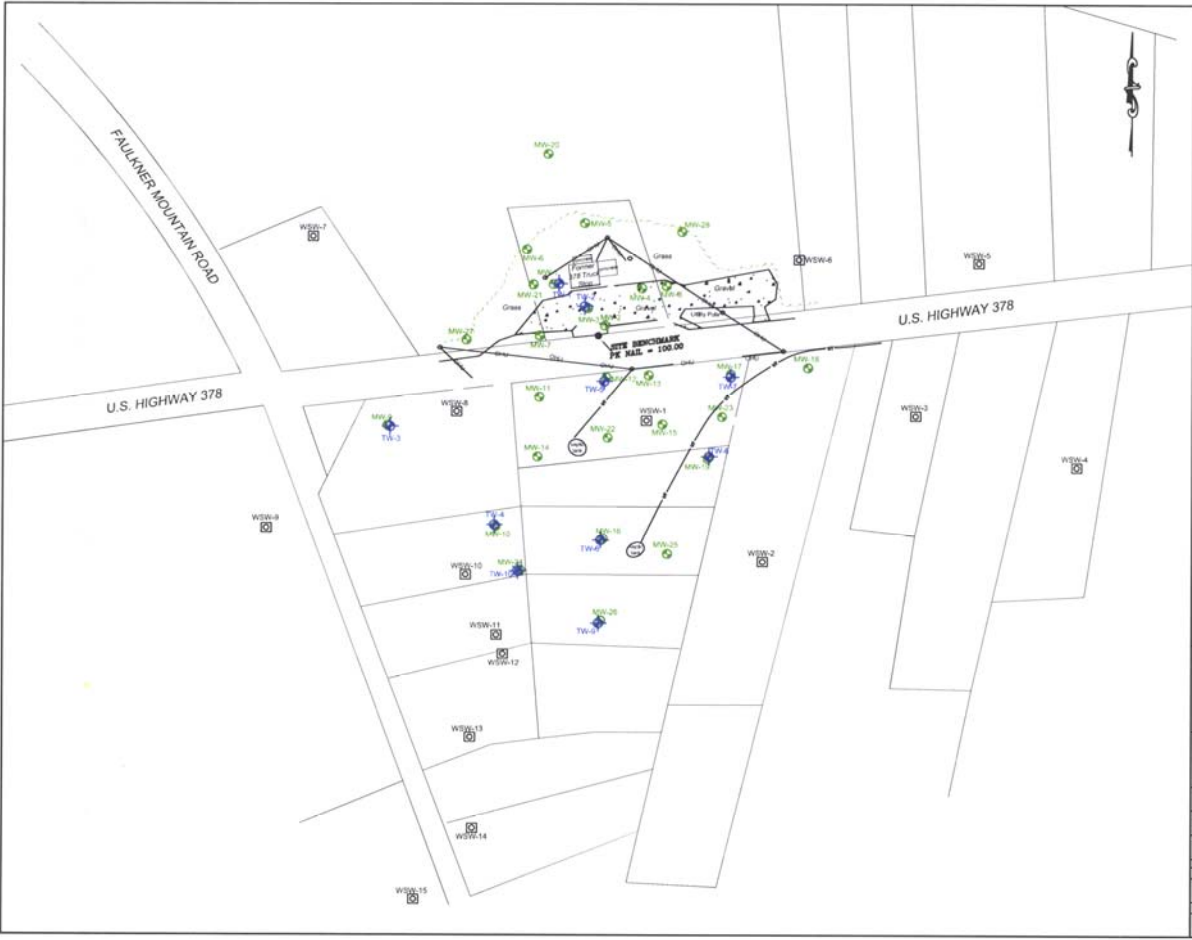
**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1204 SOUTH POINT BLVD, UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704)583-2711 FAX: (704)583-2744

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Groundwater Elevation Map - Deep**  
**Wilkerson Fuel Company, Inc.**

SCALE: 1"=150'

| DESIGNED BY | CHECKED BY | DATE   | FIGURE NO. |
|-------------|------------|--------|------------|
| CD          | CD         | 5/2/11 | 4          |



- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Underground Telephone Line
  - Utility Pole
  - Shallow (Water Table) Monitoring Well
  - ◇ Telescoping Monitoring Well
  - ★ Abandoned Telescoping Monitoring Well
  - Water Supply Well
  - MW-1 Well I.D.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1304 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)683-2711 FAX (704)683-2744

**PROJECT:** 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

**DATE:** Site Plan  
**BY:** Wilkerson Fuel Company, Inc.

**GRAPHIC SCALE:** 1" = 150'

| DESIGNED BY | CHECKED BY | APPROVED BY |
|-------------|------------|-------------|
| CD          | CD         | CD          |
| SCALE       | DATE       | JOB NO.     |
| 1"=150'     | 5/2/11     | 14-214210   |
|             |            | FIGURE NO.  |
|             |            | 2           |



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ◇ Telescoping Monitoring Well
- ★ Abandoned Telescoping Monitoring Well
- Water Supply Well
- ⊗ MW-1 Well I.D.

|        |              |
|--------|--------------|
| 5      | Benzene      |
| 1,000  | Toluene      |
| 700    | Ethylbenzene |
| 10,000 | Xylenes      |
| 40     | MTBE         |
| 25     | Naphthalene  |
| 5      | 1,2-DCA      |
| 0.05   | EDB          |
| 15     | Lead         |

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in April and May 2011.

Above concentrations represent May 2001 Risk-Based Screening Levels; Concentrations in bold face type exceeded the RBSL.

J - Estimated value between the method detection limit and the laboratory reporting limit.

<1.0 - Less than the reporting limit specified in the laboratory report.

NR - Not Requested.

NS - Not Sampled.

WSW-1 and WSW-8 data represent pre-treatment concentrations.

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 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)683-2711 FAX (704)683-2744

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Groundwater Quality Map -CoC**  
**Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 0 25 50 75 100

| DESIGNED BY | CHECKED BY | APPROVED BY |
|-------------|------------|-------------|
| CD          | CD         | CD          |
| SCALE:      | DATE:      | JOB NO.:    |
| 1"=150'     | 5/2/11     | 14-214210   |
|             |            | 5           |



**Legend**

- Approximate Property Line
- Overhead Electric Line
- Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- ⊕ Telescoping Monitoring Well
- ⊖ Abandoned Telescoping Monitoring Well
- ⊗ Water Supply Well
- MW-1 Well I.D.

|        |                               |
|--------|-------------------------------|
| 10,000 | Ethanol                       |
| 47     | Ethyl tert-Butyl Ether (ETBE) |
| 150    | Di-isopropyl Ether (DIPE)     |
| NA     | 3,3-Dimethyl-1-Butanol        |
| 1,400  | Tertiary Butyl Alcohol (TBA)  |
| 128    | Tert-Amyl Methyl Ether (TAME) |
| 240    | Tert-Amyl Alcohol (TAA)       |
| NA     | tert-Butyl Formate (TBF)      |

**General Notes:**

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in April and May 2011.

Above concentrations represent 2008 SCDHEC Action Levels. Concentrations in bold face type exceeded the Action Level.

J - Estimated value between the method detection limit and the reporting limit.

<LO - Less than the reporting limit specified in the laboratory report.

NS - Not Sampled

WSW-1 and WSW-8 data represent pre-treatment concentrations.

---

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 CHARLOTTE, NORTH CAROLINA 28273  
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---

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

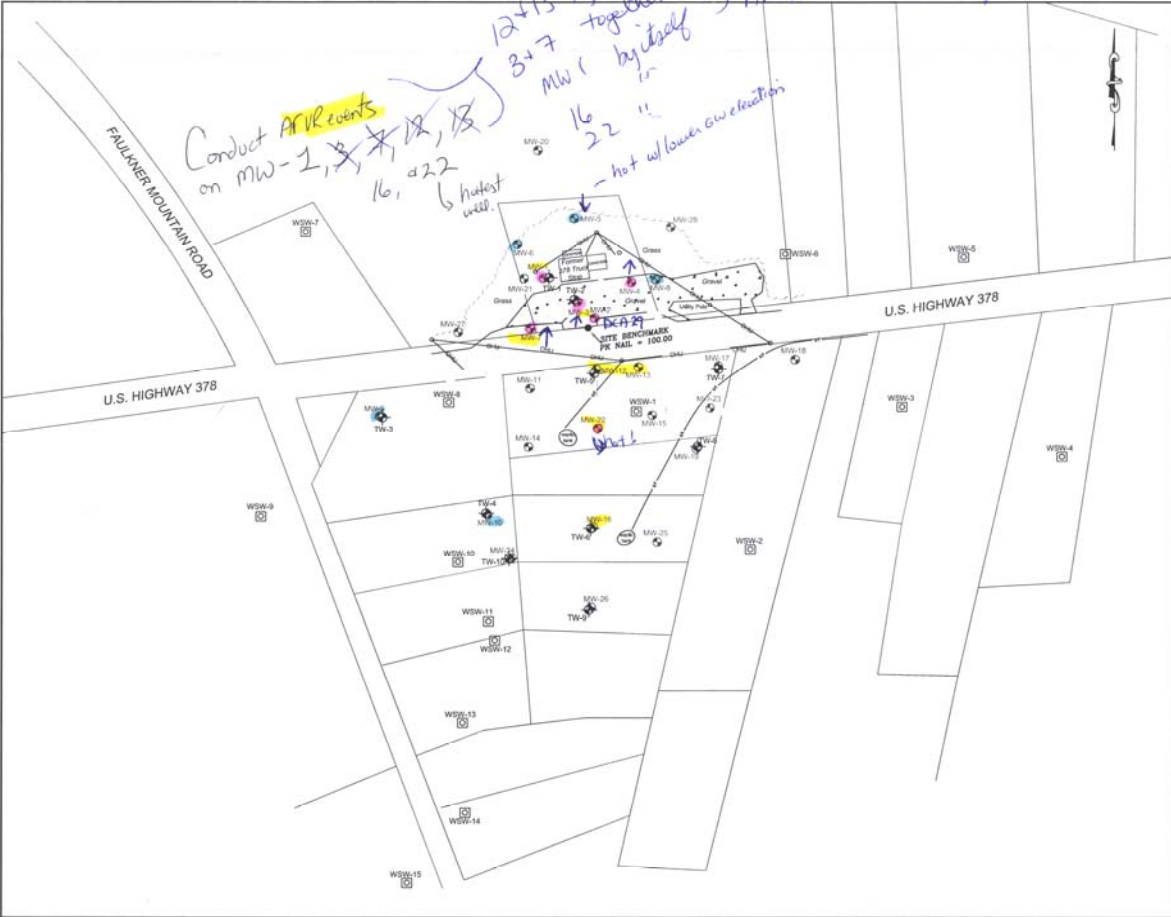
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**Groundwater Quality Map - Oxygenates**  
 Wilkerson Fuel Company, Inc.

**GRAPHIC SCALE**  
 0 25 50 75 100

| DESIGNED BY | CHECKED BY | DATE      | JOB NO.    | FIGURE NO. |
|-------------|------------|-----------|------------|------------|
| CD          | CD         | CD        | CD         | CD         |
| SCALE       | DATE       | JOB NO.   | FIGURE NO. |            |
| 1"=150'     | 5/2/11     | 14-214210 | 6          |            |





- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Underground Telephone Line
  - Utility Pole
  - Shallow (Water Table) Monitoring Well
  - ⊕ Telescoping Monitoring Well
  - ⊗ Abandoned Telescoping Monitoring Well
  - Water Supply Well
  - MW-1 Well I.D.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 1304 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL. (704)583-2711 FAX (704)583-2744

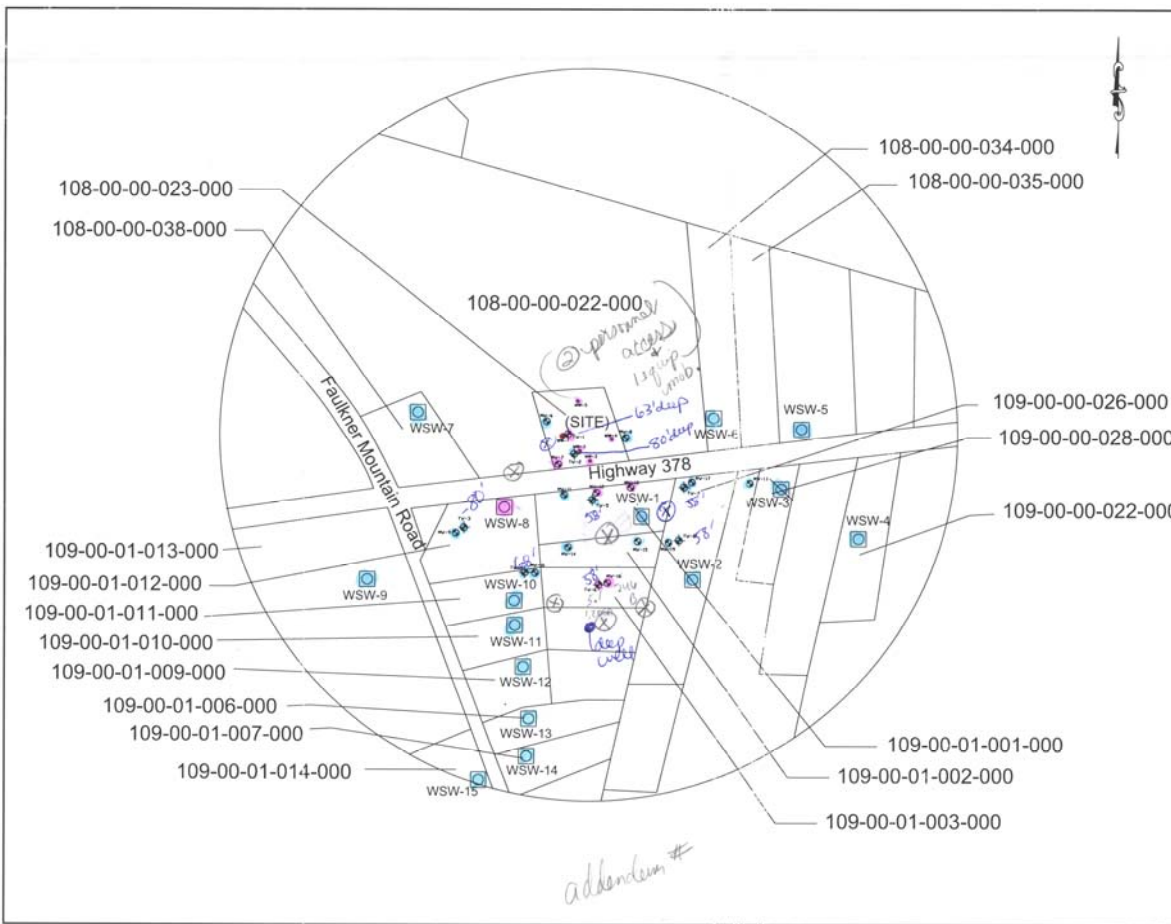
**PROJECT:**  
 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

**TITLE:**  
 Site Plan

**CLIENT:**  
 Wilkerson Fuel Company, Inc.

**GRAPHIC SCALE:** 0 25 50 75 100

| DRAWN BY: | DESIGNED BY: | CHECKED BY: | APPROVED BY: |
|-----------|--------------|-------------|--------------|
| CD        | CD           | CD          | CD           |
| SCALE:    | DATE:        | JOB NO.:    | FIGURE NO.:  |
| 1"=150'   | 5/2/11       | 14-214210   | 2            |



**Legend**

108-00-00-023-000 PARCEL ID  
 --- PARCEL BOUNDARY  
 [Symbol] WSW-1 WATER SUPPLY WELL  
 [Symbol] DISCONNECTED WSW

[Symbol] Proposed Shallow Monitoring Well  
 [Symbol] Shallow Monitoring Well  
 [Symbol] Proposed Telescoping Monitoring Well

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

---

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13504 SOUTH POINT BLVD, UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704)583-2711 FAX: (704)583-2744

PROJECT: **378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

TITLE: **Site Vicinity Map**

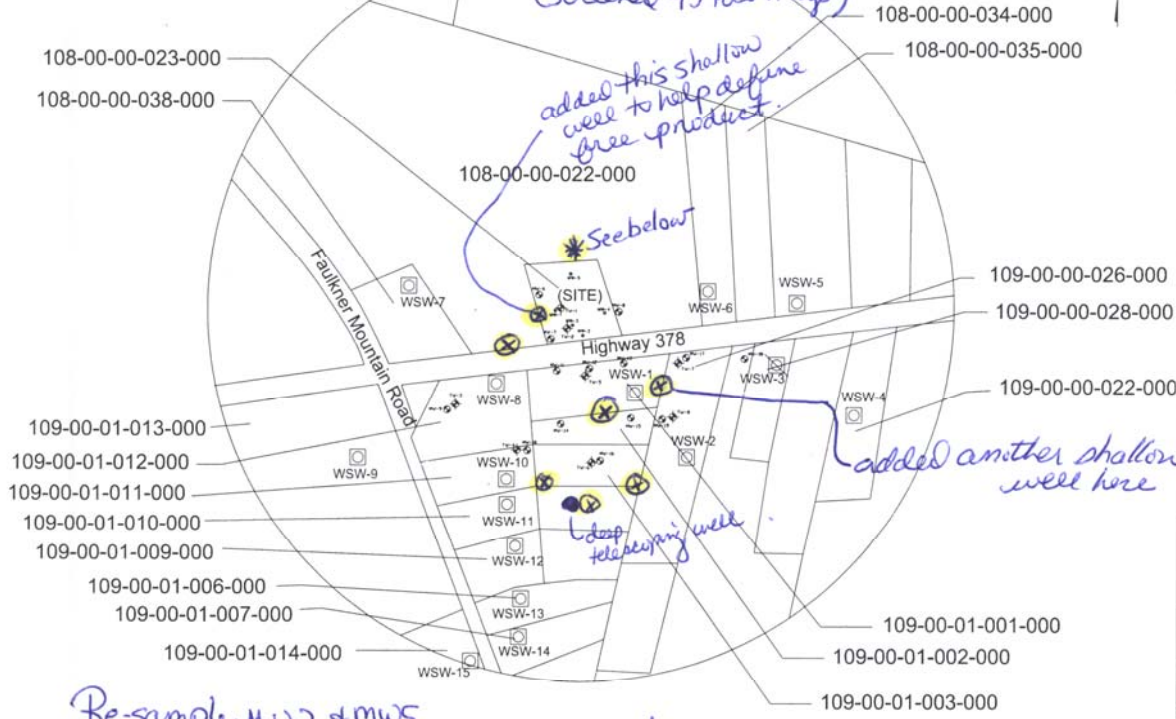
CLIENT: **Wilkerson Fuel Company, Inc.**

|               |         |            |            |
|---------------|---------|------------|------------|
| GRAPHIC SCALE | 0       | 125        | 250        |
| LENGTH UNITS  | FEET    | METERS     | FEET       |
| DRAWN BY      | CD      | CHECKED BY | CB         |
| SCALE         | DATE    | JOB NO.    | FIGURE NO. |
| 1"=250'       | 6/15/10 | 14-214210  | 2          |

2 personnel mths  
 1 equipment mob.

Addendum will be for: 8 additional shallow wells (1 may not be necessary  
 1 deep telescoping well (screeded 75 to 80 ft by)  
 See \*note)

A



**Legend**

- 108-00-00-023-000 PARCEL ID
- PARCEL BOUNDARY
- ☐ WSW-1 WATER SUPPLY WELL
- ☒ DISCONNECTED WSW
- Proposed Shallow Monitoring Well
- WSW-1 Shallow Monitoring Well
- ⊕ Proposed Telescoping Monitoring Well

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

**ecs**  
 WHERE BUSINESS AND THE ENVIRONMENT COOPERATE  
 1304 SOUTH POINT BLVD, UNIT F  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704) 683-2711 FAX: (704) 683-2744

**PROJECT:** 378 Truck Stop  
 731 Highway 378  
 Edgefield, SC

**TITLE:** Site Vicinity Map

**CLIENT:** Wilkerson Fuel Company, Inc.

| DATE    | BY | REVISION |
|---------|----|----------|
| 6/15/10 | CD | 1        |

| COMPUTER COPY FILE | CAD FILE |
|--------------------|----------|
| CD                 | CD       |

SCALE: 1"=250'  
 DATE: 6/15/10  
 JOB NO: 14-214210  
 FIGURE NO: 2

Re-sample MW2 & MWS  
 If MWS is ND or below RBSLs, then good.  
 If MWS is indeed hot, install shallow mon. well north of MW5\*

**From:** Christine Dupuis <cdupuis@ecsconsult.com>  
**To:** "Cathleen T. Ridgley" <ridglect@dhec.sc.gov>  
**Date:** 10/26/2010 4:20 PM  
**Subject:** 378 Truck Stop, UST Permit #07960  
**Attachments:** info for DHEC 10-26-10.xls; 378 Truck Stop Site Vicinity Map.pdf

Hi Ms. Ridgley,

Attached is an excel file and map for the WSW verification sampling. The excel file has 2 sheets: the first shows all of the property owner info and the ones that are affected are in bold, the second sheet lists all the WSW data. Outside the print area of the first sheet lists where the WSW samples were collected (locations of the spigots).

Hope this helps,

Christine

P.S. Just a heads up that I'm not sure if we've fully delineated the plume. It looks like the southernmost shallow well has benzene. I'm putting together all of the data we've obtained so far and, if it looks like we aren't done, I'll let you know before I complete the report.

Christine E. Dupuis

Project Manager

Environmental Compliance Services, Inc.

cdupuis@ecsconsult.com

Phone: 704-583-2711

Fax: 704-583-2744

(803) 637-3878

Bing maps

TABLE 1  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES 1  
378 TRUCK STOP

| Parcel Identification | Property Owner Name                          | Property Owner Mailing Address               | Property Address                             | Water Supply Wells on Property | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|-----------------------|--|--|--|--------------------------------|--|---|
| 108-00-00-023-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | 731 Hwy 378 East, Edgefield, SC 29824        | Possible abandoned WSW         | MW-1 through MW-7, TW-1, TW-2                                | SITE  |
| 108-00-00-022-000     | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | Disconnected WSW               | MW-8   | Wooded Area around site, has WSW for site.  |
| 108-00-00-034-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | 741 Hwy 378 East, Edgefield, SC 29824        | WSW-6                          | -  | WSW-6 tag info: Date: 9/14/00, Depth: 400 ft  |
| 108-00-00-035-000     | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824       | unknown                                      | no WSWs identified             | -  | -   |
| 108-00-00-036-000     | Horace Baker                                 | 745 Hwy 378 East, Edgefield, SC 29824        | 745 Hwy 378 East, Edgefield, SC 29824        | WSW-5                          | enclosure  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft  |
| 108-00-00-038-000     | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824        | 719 Hwy 378 East, Edgefield, SC 29824        | WSW-7                          | -  | -   |
| 109-00-00-022-000     | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824        | 752 Hwy 378 East, Edgefield, SC 29824        | WSW-4                          | -  | -   |
| 109-00-00-024-000     | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801      | unknown                                      | no WSWs identified             | MW-18  | -   |
| 109-00-00-025-000     | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536      | 758 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000     | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824        | 736 Hwy 378 East, Edgefield, SC 29824        | WSW-2 & Abandoned WSW          | MW-17, MW-19, TW-7, TW-8                                     | -   |
| 109-00-00-028-000     | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025 | 744 Hwy 378 East, Edgefield, SC 29824        | WSW-3 (Disconnected)           | 1130   | Not occupied  |
| 109-00-01-001-000     | Hattie Scurry, etal                          | 730 Hwy 378 East, Edgefield, SC 29824        | 730 Hwy 378 East, Edgefield, SC 29824        | WSW-1 & Disconnected WSW       | MW-11 through MW-13, TW-5                                    | WSW-1 tag info: Date: 12/91, Depth: 280 ft  |
| 109-00-01-002-000     | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061             | unknown                                      | Abandoned WSW                  | MW-14 and MW-15  | Wooded lot behind Scurry residence, resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000     | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138        | 732 Hwy 378 East, Edgefield, SC 29824        | Disconnected WSW               | MW-16 and TW-6   | -   |
| 109-00-01-006-000     | Ulysess Padgett                              | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | 62 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-13                         | 1030   | (803) 637-2487  |
| 109-00-01-007-000     | Ida Bryant                                   | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | 54 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-14                         | 1045   | (803) 637-3355  |
| 109-00-01-009-000     | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | 64 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-12                         | -  | -   |
| 109-00-01-010-000     | Mitchell Luther Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | 66 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-11                         | -  | -   |
| 109-00-01-011-000     | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | 68 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-10                         | MW-10 and TW-4   | -   |
| 109-00-01-012-000     | Sidney L. Gordon                             | 724 Hwy 378 East, Edgefield, SC 29824        | 722 Hwy 378 East, Edgefield, SC 29824        | WSW-8 & Disconnected WSW       | MW-9 and TW-3  | (803) 637-5266  |
| 109-00-01-013-000     | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | 71 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-9                          | -  | -   |
| 109-00-01-014-000     | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | 57 Faulkner Mountain Rd, Edgefield, SC 29824 | WSW-15                         | -  | -   |

Notes:  
1. Adjacent/adjoining properties are keyed into Figure 2.

WSW13 on ~~644~~ Derrick Simpkins property

(864) 241-1090

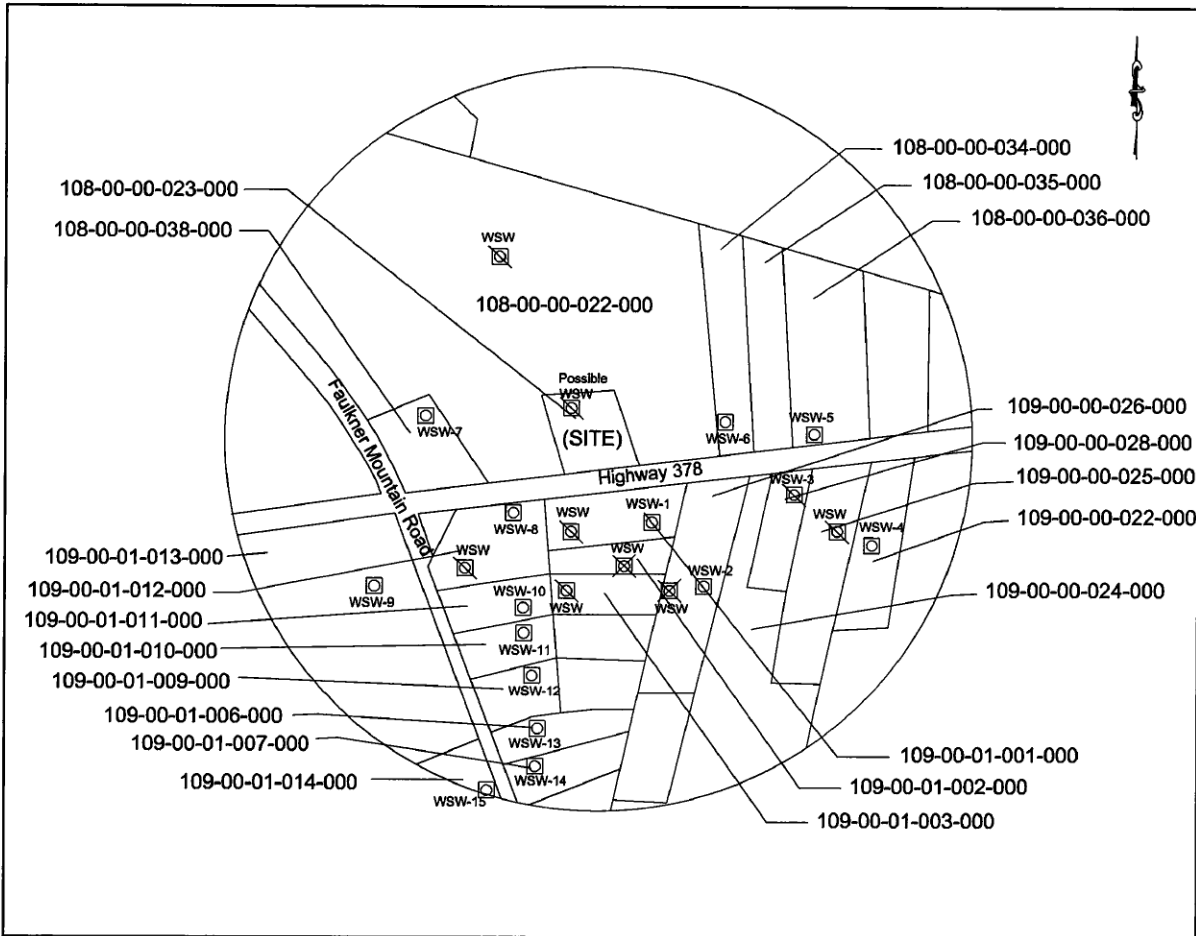
1100

Donna Rowe (864) 982-4389

Dates Not Good Monday 8th Not good.

Thursday, Nov 4th

(803) 637-5793



**Legend**

108-00-00-023-000 PARCEL ID  
 --- PARCEL BOUNDARY  
 ☐ WSW-1 WATER SUPPLY WELL  
 ☒ DISCONNECTED WSW  
 ☒ ABANDONED WSW

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

---

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 13004 SOUTH POINT BLVD. UNIT F  
 CHARLOTTE, NORTH CAROLINA 28223  
 TEL: (704)583-2711 FAX: (704)583-2744

PROJECT: **378 Truck Stop**  
 721 Highway 378  
 Edgefield, SC

TITLE: **Site Vicinity Map**

CLIENT: **Wilkerson Fuel Company, Inc.**

DATE: 6/15/10

|             |              |            |              |
|-------------|--------------|------------|--------------|
| DESIGNED BY | REVISIONS BY | CHECKED BY | APPROVED BY  |
| CD          | CD           | CD         | CD           |
| SCALE:      | DATE:        | JOB NO.:   | PROJECT NO.: |
| 1"=250'     | 6/15/10      | 14-214210  | 2            |

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**

| Well ID | Sample Date       | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | Naphthalene (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
|---------|-------------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|----------------|------------|
| WSW-1   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | 2.1 J          | <0.020     |
| WSW-2   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-3   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-4   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-5   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-6   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-7   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-8   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 3.6 J       | <5.0               | 9.2            | <0.020     |
| WSW-9   | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-10  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
| WSW-11  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-12  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.020     |
| WSW-13  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 3.2 J       | <5.0               | <5.0           | <0.020     |
| WSW-14  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | 4.0 J       | <5.0               | <5.0           | <0.020     |
| WSW-15  | 10/19/10          | <5.0           | <5.0           | <5.0                | <15.0                | <5.0        | <5.0               | <5.0           | <0.019     |
|         | RBSL <sup>6</sup> | 5              | 1,000          | 700                 | 10,000               | 40          | 25                 | 5              | 0.05       |

**Cathleen T. Ridgley - 378 Truck Stop, UST Permit #07960**

---

**From:** Christine Dupuis <cdupuis@ecsconsult.com>  
**To:** "Cathleen T. Ridgley" <ridglect@dhec.sc.gov>  
**Date:** 10/26/2010 3:53 PM  
**Subject:** 378 Truck Stop, UST Permit #07960

---

Ms. Ridgley,

I just left you a phone message regarding 378 Truck Stop. I just wanted to report some of the GW data that's coming in on PacePort. This data isn't finalized/reviewed yet but it generally doesn't change between what is shown online compared to what is provided in the final report.

There are a few concentrations of MTBE and 1,2 DCA above laboratory reporting limits in 4 of the private water supply wells. One of these has a concentration above the RBSL for 1,2 DCA (the remaining 1,2 DCA and MTBE concentrations are below RBSLs). The concentrations overall are low but because municipal water is not provided to the area I wanted to report it as soon as possible. Please let me know what, if any, other information you would like me to provide. I'm putting together a table right now which I can provide if you would like.

Thank you,  
Christine

Christine E. Dupuis  
Project Manager  
Environmental Compliance Services, Inc.  
[cdupuis@ecsconsult.com](mailto:cdupuis@ecsconsult.com)  
Phone: 704-583-2711  
Fax: 704-583-2744



**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATION DATA<sup>1</sup>**  
**378 TRUCK STOP**

| Well ID | Date Measured         | Top of Casing Elevation (ft) | Depth to Free Product (ft) | Depth to Ground-water (ft) | Free Product Thickness (ft) | Ground-water Elevation <sup>2</sup> (ft) | Well Depth (ft) | Screened Interval (ft) |
|---------|-----------------------|------------------------------|----------------------------|----------------------------|-----------------------------|--|-----------------|------------------------|
| MW-1    | 5/25/10 <sup>3</sup>  | 101.85                       | 15.33                      | 15.37                      | 0.04                        | 86.51                                    | unknown         | unknown                |
|         | 10/18/10 <sup>4</sup> |                              | 26.50                      | 26.54                      | 0.04                        | -26.51                                   |                 |                        |
| MW-2    | 5/25/10               | 101.02                       | --                         | 16.82                      | --                          | 84.20                                    | 41.72           | unknown                |
|         | 10/18/10              |                              | --                         | 27.10                      | --                          | -27.10                                   |                 |                        |
| MW-3    | 5/25/10               | 101.46                       | --                         | 17.28                      | --                          | 84.18                                    | 40              | 10-40                  |
|         | 10/18/10              |                              | --                         | 27.58                      | --                          | -27.58                                   |                 |                        |
| MW-4    | 5/25/10               | 100.50                       | --                         | 16.35                      | --                          | 84.15                                    | 40              | 10-40                  |
|         | 10/18/10              |                              | --                         | 26.20                      | --                          | -26.20                                   |                 |                        |
| MW-5    | 5/25/10               | 104.21                       | --                         | 27.30                      | --                          | 76.91                                    | 40              | 20-40                  |
|         | 10/18/10              |                              | --                         | 30.24                      | --                          | -30.24                                   |                 |                        |
| MW-6    | 10/18/10              |                              | --                         | 28.01                      | --                          | -28.01                                   | 35.05           | 20.05-35.05            |
| MW-7    | 10/18/10              |                              | --                         | 25.10                      | --                          | -25.10                                   | 34.92           | 19.92-34.92            |
| MW-8    | 10/18/10              |                              | --                         | 25.45                      | --                          | -25.45                                   | 35.08           | 20.08-35.08            |
| MW-9    | 10/18/10              |                              | --                         | 30.31                      | --                          | -30.31                                   | 35.17           | 20.17-35.17            |
| MW-10   | 10/18/10              |                              | --                         | 29.73                      | --                          | -29.73                                   | 40.16           | 25.16-40.16            |
| MW-11   | 10/18/10              |                              | --                         | 28.75                      | --                          | -28.75                                   | 35.23           | 20.23-35.23            |
| MW-12   | 10/18/10              |                              | --                         | 29.63                      | --                          | -29.63                                   | 34.99           | 19.99-34.99            |
| MW-13   | 10/18/10              |                              | --                         | 27.63                      | --                          | -27.63                                   | 40.19           | 25.19-40.19            |
| MW-14   | 10/18/10              |                              | --                         | 29.99                      | --                          | -29.99                                   | 39.74           | 24.74-39.74            |
| MW-15   | 10/18/10              |                              | --                         | 30.32                      | --                          | -30.32                                   | 40.13           | 25.13-40.13            |
| MW-16   | 10/18/10              |                              | --                         | 30.79                      | --                          | -30.79                                   | 40.11           | 25.11-40.11            |
| MW-17   | 10/18/10              |                              | --                         | 23.74                      | --                          | -23.74                                   | 35.02           | 20.02-35.02            |
| MW-18   | 10/18/10              |                              | --                         | 22.02                      | --                          | -22.02                                   | 35.67           | 20.67-35.67            |
| MW-19   | 10/18/10              |                              | --                         | 27.62                      | --                          | -27.62                                   | 38.57           | 23.57-38.57            |
| TW-1    | 10/18/10              |                              | --                         | 28.44                      | --                          | -28.44                                   | 63.27           | 58.27-63.27            |
| TW-2    | 10/18/10              |                              | --                         | 29.57                      | --                          | -29.57                                   | 80.23           | 75.23-80.23            |
| TW-3    | 10/18/10              |                              | --                         | 25.39                      | --                          | -25.39                                   | 80.62           | 75.62-80.62            |
| TW-4    | 10/18/10              |                              | --                         | 43.13                      | --                          | -43.13                                   | 68.56           | 63.56-68.56            |
| TW-5    | 10/18/10              |                              | --                         | 29.69                      | --                          | -29.69                                   | 58.38           | 53.38-58.38            |
| TW-6    | 10/18/10              |                              | --                         | 31.22                      | --                          | -31.22                                   | 58.55           | 53.55-58.55            |
| TW-7    | 10/18/10              |                              | --                         | 50.90                      | --                          | -50.90                                   | 58.94           | 53.94-58.94            |
| TW-8    | 10/18/10              |                              | --                         | 28.18                      | --                          | -28.18                                   | 58.53           | 53.53-58.53            |

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm<sup>3</sup>.
3. May 2010 survey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent survey data provided by Pittman Professional Land Surveying.

**From:** Christine Dupuis <cdupuis@ecsconsult.com>  
**To:** "Cathleen T. Ridgley" <ridglect@dhec.sc.gov>  
**Date:** 11/2/2010 8:54 AM  
**Subject:** 378 Truck Stop, UST Permit #07960  
**Attachments:** 378 Truck Stop site vicinity map with approx. well locations 11-2-10.pdf; Tables.xls

Ms. Ridgley,

I received the completed lab report for 378 Truck Stop this morning. A map with approximate well locations is attached along with tables of the GW data. Based on the data shown, it's possible that the samples for MW-2 and MW-5 were switched. I would suggest a re-sample to verify the results.

Well MW-16, located furthest south and ~370 ft from the site, had a benzene concentration of 246 ug/L. TW-1, located onsite and installed to a depth of ~63 ft had a 1,2 DCA concentration of 64.2 ug/L and a TAA concentration of 1,180 ug/L.

Please let me know if you would like us to continue the assessment at this time or complete the report as is.

Thank you,

Christine

Christine E. Dupuis

Project Manager

Environmental Compliance Services, Inc.

cdupuis@ecsconsult.com

Phone: 704-583-2711

Fax: 704-583-2744

## **TIMELINE OF EVENTS RECORDED IN TECHNICAL FILE #07960**

- **1954 - Truck Stop built Phillips 66 (P & O Oil Co. Odom Operator: Fulmer)**
- **1959 - Truck Stop WSWs had gas in their wells**
- **1969 – Scurry WSW installed**
  
- **8/1974 – Note: 10 Homes have gas in their wells. Need help.**
  
- **10/3/174 - 8 WATER SUPPLY WELLS were surveyed & 7 sampled  
Anderson, Scurry, Gordon, & 2 gas station wells sampled  
Culbreath and other gas station well (filled w/garbage) not sampled  
All well depths between 452 & 468 ft. deep**
  
- **2/1975 - Analytical report – Anderson, Culbreath, Scurry Sampling  
Anderson Old Well has free product (100% gasoline, which matches Phillips  
66 sample)**
  
- **12/1975 – Scurry Well Sampled (0 – 40 ppm gasoline)**
- **12/30/74 – NOTE in file: Only 2 (wells have problems –Anderson & Scurry)**
  
- **1/7/75- Anderson well better; Scurry worse (Scurry planning a civil law suit)**
  
- **1/5/76- 01/1976 - DHEC letter to W. F. Scurry (DHEC recommends legal action  
to get leak testing done at Phillips Station/No funds available from DHEC:  
DHEC tried, but never received tank testing results done by Mr. Fulmer)**
  
- **4/1977 – DHEC memo (well owner gets water sampled twice (100%  
hydrocarbon; DHEC seeks help internally)**
  
- **6/1977 Memo: DHEC & Attny. General decision that DHEC did not have  
jurisdiction under Pollution Control Act for SC – “More Proof needed for  
determination of contaminant source”**
  
- **7/1977 –Mr. Gordon reports that his well has a taste/odor.**
  
- **1/1984 – Scurry well sampled. No volatile organics detected.**
- **1/1986 – 3 USTs registered.**
  
- **11/1988 – Wilkerson Fuel Company writes letter to DHEC – tanks were  
reported as purchased & removed.**
  
- **3/1990 Memo to Jim Hess – States Gas station is source of well contamination &  
Odom will not respond. Store operator states Odom is owner of tanks.**

- **4/1990 Scurry reports to DHEC that their well is still contaminated, but with oil not gas.**
- **5/1990 – DHEC (Trust Section of GW Protection Div.) asks P & O Oil Co. for an assessment plan based on results of the two 1975 Analytical reports.**  
**Report due date of 7/1990 is extended to 8/1990 and again to 9/1990 after Wilkerson Oil asks for extension due to ownership dispute betwn. Odom Oil and Wilkerson Fuel Co. Wilkerson Oil files claim with P&O Oil Co.'s Insurance Co. (Federated Insurance). The claim is denied 9/1990, because release occurred before policy went into effect.)**  
**10/1990 – Wilkerson Oil hires attorney (Wilkerson Oil supplied gas to facility from 1986 to 1987; never owned property)**  
**11/1990 DHEC names Wilkerson Oil as an 'unwilling' RP; Trust funds will be used for assessment to determine RP.**
- **6/1991 – DHEC memo to file (Site Visit):**  
**Restaurant & gas station owned by Jolly Odom.**  
**Ms. Scurry mentions a former waste oil pit used by station & that station had shut down in 1990**  
**Carl Coates (lives behind Scurry) drilled new well 1988? (200 ft)**  
**Old well filled w/garbage**  
**Coates sister's house burned down (her well was contaminated & found covered up with cement) George Coates now lives at this location and dug new well**
- **8/1991 – 9 WSWs sampled (Metals, BTEX, VOCs)**  
**Scurry, Coley, Webb, Roadside Scurry, G. Coates, Culbreath, Gordon Nicholson, & C Coates. Roadside Scurry well has hit (Benzene 11ppb)**  
**Other wells ND**
- **9/1991 – Scurry well Sampled twice:**

|                       |                       |
|-----------------------|-----------------------|
| 4.8 ppb 1,2- DCA      | 19.2 ppb benzene      |
| 1.67 ppb ethylbenzene | 3.7 1,2-DCA           |
| 4.3 ppb toluene       | 1.69 ppb ethylbenzene |
| 5.6 ppb naphthalene   |                       |
- **1/1992 – Scurry well-head & sink sampled:**

|                   |                                      |
|-------------------|--------------------------------------|
| <b>Well-head:</b> | <b>bromodichloromethane 193 ppb</b>  |
|                   | <b>chloroform 231 ppb</b>            |
|                   | <b>dibromochloromethane 66 ppb</b>   |
| <b>Sink:</b>      | <b>bromodichloromethane 12.1 ppb</b> |
|                   | <b>n-butyl benzene 1.5 ppb</b>       |
|                   | <b>chloroform 12.7 ppb</b>           |
|                   | <b>dibromochloromethane 8.8 ppb</b>  |

- **2/1992 – Scurry well & house sampled again**  
**Same constituents at less concentrations in both samples w/ addition of 2ppb toluene in both samples**
  
- **10/1993 – Memo to GW Protection Div. (Columbia) from DHEC (Greenwood)**  
**#15972 Scurry/Anderson Wells Trust Fund Site; however 378 Truck Stop not assessed (?)**  
  
**Two MWs installed on Truck Stop Property 45 ft. deep/ depth to GW 25.8 ft.**  
  
**First mention that a new well drilled on Scurry property in 1990.**  
  

|                               |                             |
|-------------------------------|-----------------------------|
| <b>MW1: 4,010 ppb benzene</b> | <b>MW2: 135 ppb benzene</b> |
| <b>1,440 ppb toluene</b>      | <b>54 ppb toluene</b>       |
| <b>166 ethylbenzene</b>       | <b>13.7 ethylbenzene</b>    |
| <b>5,490 xylene</b>           | <b>54.7 xylene</b>          |

**Jolly Odom signs right-of-entry form**
  
- **7/1996 – DHEC Memo to File**  
**(#07960) Truck Stop Identified as source of Scurry Well contamination**
  
- **1999 – Note in EFIS database Regulatory/Compliance files for #07960 purged**
  
- **9/2002 – DHEC memo to Bob Hutchinson from Chuck Hightower:**  
**1974 District informed of contaminated wells**  
**UST Program assigns #15972**  
**Project closed under #15972, but NEVER entered under #07960**  
**Recommends all drinking wells in area be examined.**
  
- **11/2002: Travis Williams visits site, which is now a church**  
**MW-1 & -2 & WSW-1 sampled**  
**MW-1: 1400 ppb benzene**  
**1000 ppb ethylbenzene**  
**ND MtBE**  
**230 ppb naphthalene**  
**420 ppb toluene**  
**4700 ppb xylenes**  
**420 ppb toluene**  
**depth to water 28.1 ft.**  
**MW-2: ND for BTEX (depth to water 26 ft.)**  
**WSW-1: ND for BTEX (Scurry's new drinking well-installed in 1990)**  
**No other WSWs sampled**

- **Ranked in EFIS database as 4B in Saluda County (should have been ranked a 2BB in Edgefield County.**
- **9/8/2009: #07960 Reassigned to Cathleen Ridgley UST Assessment PM for Edgefield County after a site visit by Minda Johnson (Saluda Co. Assessment PM).**
  - Technical File Review by Cathleen Ridgley**
  - EFIS database: Release reported 10/3/1974 & confirmed 7/8/1996**
  - Site re-ranked by Cathleen Ridgley as a 2BB.**
- **2/1/2010: Tier I Assessment Directive sent to Wilkerson Fuel Co.**
  - Sample MW-1 and -2; Install 3 additional shallow monitoring wells**
  - Conduct 8 soil borings**
- **5/4/2010 Wilkerson Fuel Co. chooses ECS, Inc. as site rehabilitation contractor.**
- **6/24/2010 Tier I Assessment report received from ECS, Inc.**
  - Depth to water approximately 15 feet for monitoring wells**
  - MW-1 has 0.04 ft of Free Product**
  - MW-2 & -3 Petroleum Chemicals > RBSLs**
  - 6 of the 8 soil borings Petroleum chemicals > RBSL**
  - SB-6 hottest sample**
  - 20 WSWs identified within 1,000 ft. of truck stop facility**
  - (Hattie Scurry & Sidney Gordon each have an abandoned WSW, also)**
  - 6 of the WSWs reported as “disconnected”; but 1 of the 6 able to be sampled**
  - Total of 15 WSWs were sampled for BTEX, N, MtBE, lead, EDB (all ND)**
- **8/4/2010 Tier II Assessment Plan received from ECS, Inc.**
- **8/16/10 Tier II Assessment Directive sent to Wilkerson Fuel Co.**
- **10/26/10 Cathleen receives call from ECS**
  - GW elevation dropped approximately 10 feet**
  - Analytical data from sampling of 15 WSWs**
    - Petroleum impact Sidney Gordon, Hattie Scurry, Ida Bryant, Ulysess Padgett WSWs**
    - Sidney Gordon WSW 1,2-DCA > RBSL**
- **11/4/10 Cathleen re-samples all 4 impacted WSWs for confirmation of impact**
  - Samples analyzed for 8 oxygenates, BTEX, Naph., MtBE, EDB, 1,2-DCA**
- **11/9/10 Lab report received confirming impact of 4 WSWs**
  - Cathleen Re-ranks release to a ‘1’**

● **WSW Sampling Results October & November 2010 :**

| Date Sampled | WSW ID | Benzene | Toluene | Ethylbenzene | Xylenes | MtBE | Naphth. | EDB | 1,2-DC A | Oxygenates                        |
|--------------|--------|---------|---------|--------------|---------|------|---------|-----|----------|-----------------------------------|
| 10/19/10*    | WSW1   | ND      | ND      | ND           | ND      | ND   | ND      | ND  | 2.1      | NS                                |
| 11/4/10**    |        | ND      | ND      | ND           | ND      | ND   | ND      | ND  | 2.1      | TBA 7.5                           |
| 10/19/10     | WSW8   | ND      | ND      | ND           | ND      | 3.6  | ND      | ND  | 9.2      | NS                                |
| 11/4/10      |        | ND      | ND      | ND           | ND      |      | ND      | ND  | 8.7      | MtBE 0.83<br>TAA 130<br>DIPE 0.23 |
| 10/19/10     | WSW13  | ND      | ND      | ND           | ND      | 3.2  | ND      | ND  | ND       | NS                                |
| 11/4/10      |        | ND      | ND      | ND           | ND      |      |         | ND  | ND       | MtBE 0.32                         |
| 10/19/10     | WSW14  | ND      | ND      | ND           | ND      | 4.0  | ND      | ND  | ND       | NS                                |
| 11/4/10      |        | ND      | ND      | ND           | ND      |      | ND      | ND  | ND       | MtBE 1.3                          |

ug/L Analytical results  
 NS Not Sampled  
 \* ECS, Inc. sampling  
 \*\* DHEC sampling  
 MtBE methyl-tert butyl ether  
 TAA tert Amyl Alcohol  
 TBA tert Butyl Alcohol  
 DIPE diisopropyl ether

- **11/12/10 Cathleen directs ECS to install GAC Unit on Sidney Gordon WSW**
- **11/10 Cathleen directs ECS to install GAC Unit on Scurry WSW (pre-cautionary measure)**
- **11/10 GAC WSW-8 (Gordon) GAC Installation Report received  
 Post GAC samples ND for all petroleum chemicals  
 GW Elevation dropped another 2 feet.**
- **11/10 GAC WSW-1 (Scurry) GAC Installation Report received  
 Post GAC samples ND for all petroleum chemicals  
 GW Elevation dropped another 2 feet.**
- **11/12/10 Cathleen directs ECS to sample remaining 12 WSWs for 8 oxygenates since concentrations of oxygenates increased in WSW-8 (Gordon) since 11/4/10 sampling.**

SLIDE 1:

INTRODUCE MYSELF

My name is Cathleen Ridgley.

I am a hydrogeologist that works for the Dept. of Health & Env. Control – DHEC for short.

Some of you know me already. I have met personally with some of you.

SLIDE 2:

Purpose of Meeting is to inform you of activities going on in your neighborhood,

And:

With the help of other DHEC employees, answer any questions and address any concerns you may have.

DHEC directed the owner of the former underground storage tanks To conduct activities to assess the extent of a gasoline release that occurred when these tanks were still in the ground.

The tank owner hired Environmental Compliance Services, or ECS for short to conduct the work.

These Assessment Activities include the sampling of all drinking water wells for gasoline related chemicals in the area.

And:

The installation of monitoring wells. Groundwater is then sampled to see where gasoline chemicals are in the groundwater; how far out horizontally and how deep these chemicals have traveled in the groundwater.

SLIDE 3:

First, I want to briefly talk about what gasoline is.

Gasoline is made up of over 150 chemicals.

Some of these chemicals are listed on the slide.

Chemicals present can give us an idea of whether or not the gas was leaded or unleaded helping us determine a time frame of when the release may have occurred.

Gasoline floats on water while some mixes with the groundwater.

SLIDE 4:

Sampling of  
Drinking wells

Gasoline was first detected in the groundwater in the 1970s.

In response to the release, DHEC sampled drinking water wells in the area and funded the drilling of new drinking water wells for owners whose wells had gasoline chemicals in it.



In October of this year, DHEC received a report that gasoline chemicals relating to the underground storage tanks that existed at the former truck stop had impacted drinking water wells in the area.

15 drinking wells were sampled in May of this year. Some wells could not be sampled since the property was vacant and the wells disconnected.

No gasoline chemicals were found in any of the wells.

In October of this year, the wells were sampled again.  
4 of the 15 wells showed low levels of gasoline chemicals in them.

SLIDE 5:

Here is a map showing you the site and location of drinking wells that were sampled.

The former truck stop is located here.

The blue wells contained no gasoline chemicals.

The green wells contained very minute levels of a gasoline chemical called MtBE.

2 of the wells, depicted in red, had levels of a gasoline chemical that was higher, or very close to, its standard level for drinking water.

The name of that chemical is 1,2-DCA.

Other gasoline chemicals: TAA, TBA, DIPE, as well as MtBE were detected at very low, or safe levels, in the red wells.

I have provided you with a fact sheet of all gasoline chemicals detected in the drinking wells for your information.

In response to these findings, DHEC contacted the owners of the wells and provided them with the results even if their wells had no gasoline chemicals in them.

DHEC informed the owner of this red well to use bottled water since 1,2-DCA was detected over its safe drinking standard.

DHEC directed the contractor to install granular activated carbon, or GAC units on the red wells to ensure safe drinking water again.

SLIDE 6

Here is a picture of a GAC unit. I'm sure you've noticed them recently.

SLIDE 7:

DHEC is also directing the installation of monitoring wells in the area as I'm sure you've seen or heard the drill rig in the area.

These monitoring wells allow us to collect samples of groundwater to be tested for gasoline chemicals and monitor any changes in their concentrations over time.

By the way, the black drums in the area contain the soil dug up and the water produced from installing and sampling these wells. The contractor will be removing them from the area soon.

A total of 26 shallow wells and 9 deep monitoring wells were installed so far.

More wells may be necessary depending on the sampling results of the most recently installed wells.

SLIDE 8:

Here is a map showing you the locations of these monitoring wells in relationship to the locations of drinking wells and the source of the release, the former truck stop.

The circles are shallow wells and the triangles are deep wells.

The blue wells are wells that contain no gasoline chemicals or chemicals that are below their safe drinking standards.

The red wells contain gasoline chemicals above their safe standard levels.

The orange well, if you can see it, has free product in it.

We are still waiting for the results of the monitoring wells depicted in green.

SLIDE 9:

Future Activities:

What does DHEC plan to do?

Determine if more monitoring wells are necessary to define the extent of gasoline chemicals in the groundwater. I should be receiving the results of the sampling of those 9 wells this week.

Continue to direct the sampling of all drinking wells in the area. I am expecting another report this week.

Continue to direct the maintenance of GAC units and install additional ones if necessary.

Listen and act on any concerns you may have as far as any odors or tastes in your water.

Explore additional cleanup options.

What can you do to help? If you know how deep your drinking well is, please let us know. It will greatly help in our assessment of groundwater in the area.

SLIDE 10: Now, I would like to introduce to you your local DHEC contacts, Chris McCluskey and Donna Rowe. Their contact information is here.

SLIDE 11: Feel free to also contact myself, and if I am not available, my supervisor Chris Doll, or our public outreach contact, Donna Moyer.

SLIDE 12: Are there any questions or comments?

Neil Bartley  
102 Faulkner Hill Rd  
Edgelyfield  
803-637-5422

160-

126 Faulkner  
with RD  
another Bartley.

Dennis Scumy 803 - 480 - 4652

Sample tap H<sub>2</sub>O

WOD best day

Carl Whitman



RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

**MAY 08 2018**

Re: **Site Specific Work Plan Request for GAC Change and Groundwater Sample Collection**  
378 Truck Stop, 731 Highway 378, Edgefield, SC  
UST Permit #07960  
Release reported October 3, 1974  
Edgefield County

Dear Mr. Lowder:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report. The report indicates the presence of chemicals of concern (CoCs) in the groundwater.

To ensure a clean source of drinking water, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Granular Activated Carbon (GAC) Unit sampling and filter change event as outlined in the current revision of the UST Quality Assurance Program Plan (QAPP) is necessary. This scope of work should be conducted on the Scurry Residence water supply well located at 730 Highway 378 East, Edgefield, SC, and on the Gordon Residence water supply well located at 724 Highway 378 East, Edgefield, SC in accordance with the UST QAPP and in compliance with all applicable regulations. Pre-and post- GAC samples should be collected prior to the filter change and analyzed for BTEX, MTBE, Naphthalene, 1, 2-DCA, 8 Oxygenates, Ethanol, and EDB. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. A copy of the DHEC QAPP for the UST Management Division is available at

<http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance>.

**Please complete and submit the Site-Specific Work Plan and Cost Proposal to the UST Division within fifteen (15) days of the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from DHEC must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #07960. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail to kuhnkm@dhec.sc.gov.

Sincerely,



Kimberly Kuhn, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Site Information

cc: Adam Looper, UST Management Division  
Technical File (w/out enclosure)

# Emerald, Inc.

CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS

---

2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

---

WEBSITE:  
www.emeraldinc-us.com

TELEPHONE (803) 469-5454  
FAX (803) 469-5465

May 18, 2018

Mrs. Kimberly Kuhn, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

Site Specific Work Plan  
378 Truck Stop  
731 Highway 378  
Edgefield, South Carolina  
SCDHEC Site ID #07960



Mrs. Kuhn,

Please find the attached Site Specific Work Plan, proposed costs and example chain of custody for Granular Activated Carbon (GAC) filter change and sampling. These GACs are associated with the Scurry residence located at 730 Highway 378 East and Gordon residence located at 724 Highway 378 East in Edgefield, SC. If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,

A handwritten signature in black ink, appearing to read "William C. McClary".

William C. McClary, P.G.  
Project Manager

**Attachments**

- Appendix A - Site Specific Work Plan
- Appendix B - Example Chain of Custody
- Appendix C - Proposed Costs

**Appendix A**  
**Site Specific Work Plan**



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Kimberly Kuhn, Hydrogeologist (SCDHEC Project Manager)  
 From: Chad McClary, P.G. (Contractor Project Manager)  
 Contractor: Emerald, Inc. UST Contractor Certification Number: 67

Facility Name: 378 Truck Stop UST Permit #: 07960  
 Facility Address: 731 Highway 378, Edgefield, SC  
 Responsible Party: \_\_\_\_\_ Phone: \_\_\_\_\_  
 RP Address: \_\_\_\_\_  
 Property Owner (if different): \_\_\_\_\_  
 Property Owner Address: \_\_\_\_\_  
 Current Use of Property: \_\_\_\_\_

**Scope of Work** (Please check all that apply)

IGWA                       Tier II                       Groundwater Sampling                       GAC  
 Tier I                       Monitoring Well Installation                       Other \_\_\_\_\_

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

BTEXNMDCA (8260B)                       Lead                       BOD                       Methane  
 Oxygenates (8260B)                       8 RCRA Metals                       Nitrate                       Ethanol  
 EDB (8011)                       TPH                       Sulfate                       Dissolved Iron  
 PAH (8270D)                       pH                       Other \_\_\_\_\_

Drinking Water Supply Wells:

BTEXNMDCA (524.2)                       Mercury (200.8 245.1 or 245.2)                       EDB (504.1)  
 Oxygenates & Ethanol (8260B)                       RCRA Metals (200.8)

Soil:

BTEXNM                       Lead                       RCRA Metals                       TPH-DRO (3550B/8015B)                       Grain Size  
 PAH                       Oil & Grease (9071)                       TPH-GRO (5030B/8015B)                       TOC

Air:

BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil                      4 Water Supply Wells                      \_\_\_\_\_ Air                      1 Field Blank  
 \_\_\_\_\_ Monitoring Wells                      \_\_\_\_\_ Surface Water                      1 Duplicate                      1 Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_



UST Permit #: 07960 Facility Name: 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 15 Field Work Completion: 30  
Report Submittal: 35 # of Copies Provided to Property Owners: 1

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: \_\_\_\_\_ Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

The subject site (378 Truck Stop) is located at 731 Highway 378 outside Edgefield, SC. Two nearby water supply wells (Scurry and Gordon) have been impacted by petroleum contamination. Each water supply well (WSW) has been attached to granular activated carbon (GAC) filters to aid in removal of petroleum contaminants. Prior to conducting a carbon change, Emerald, Inc. will collect samples from the Scurry and Gordon WSWs before filtering (Pre GAC) and after passing through the filter (Post GAC). The duplicate sample will be collected from the Scurry Pre-GAC sampling port. This work will be conducted under Solicitation IFB-5400011271-4/28/16-EMW and PO #4600491068. The samples will be collected after opening the spigot for approximately 10 minutes or until the well pump turns on. Samples will be collected by allowing the well water to pour directly into laboratory supplied sampling containers.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

\_\_\_\_ Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

\_\_\_\_ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

\_\_\_\_ Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

**Appendix B**  
**Example Chain of Custody**



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: \_\_\_\_\_ of \_\_\_\_\_

|  |      |   |  |  |  |  |  |
|--|------|---|--|--|--|--|--|
| <b>Section A</b><br>Required Client Information: |      | <b>Section B</b><br>Required Project Information: |  | <b>Section C</b><br>Invoice Information: |  | <b>REGULATORY AGENCY</b><br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____<br><br><b>Site Location</b><br>STATE: <u>SC</u> |  |
| Company: SCDHEC                                  |      | Report To: A. Thrash                              |  | Attention:                               |  |  |  |
| Address: 2600 BULL STREET                        |      | Copy To:  |  | Company Name:                            |  |  |  |
| COLUMBIA, SC 29201                               |      |   |  | Address:                                 |  |  |  |
| Email To: thrasham@dhec.sc.gov                   |      | Purchase Order No.:                               |  | Pace Quote Reference:                    |  |  |  |
| Phone: 803-898-0589                              | Fax: | Project Name: 378 Truck Stop                      |  | Pace Project Manager: T. CARTER          |  |  |  |
| Requested Due Date/TAT:                          |      | Project Number: SCDHEC SITE ID# 07960, PACE CA#   |  | Pace Profile #:                          |  |  |  |

| ITEM # | Section D<br>Required Client Information | Valid Matrix Codes<br>MATRIX CODE (see valid codes to left) | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   | Analysis Test (Y/N) | Requested Analysis Filtered (Y/N) |       |  |  |  |  |  |  |  |  | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |  |  |  |  |  |  |  |  |  |  |  |  |
|--------|--|---|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|---------------------|-----------------------------------|-------|--|--|--|--|--|--|--|--|-------------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
|        |  |   | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |                     | Methanol                          | Other |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
|        |  |   | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |                     |                                   |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 1      | 07960 SCURRY PRE-GAC                     | WT  | G               |      |                    |      | 9                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 2      | 07960 SCURRY PRE GAC DUP                 | WT  | G               |      |                    |      | 9                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 3      | 07960 SCURRY POST GAC                    | WT  | G               |      |                    |      | 9                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 4      | 07960 GORDON PRE-GAC                     | WT  | G               |      |                    |      | 9                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 5      | 07960 GORDON POST GAC                    | WT  | G               |      |                    |      | 9                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 6      | 07960 FIELD BLANK                        | WT  | G               |      |                    |      | 9                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 7      | 07960 TRIP BLANK                         | WT  | G               |      |                    |      | 6                         |                 |               |                                |                  |     |      | X   | X                   | X                                 |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 8      |  |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                     |                                   |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 9      |  |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                     |                                   |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 10     |  |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                     |                                   |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 11     |  |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                     |                                   |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |
| 12     |  |   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                     |                                   |       |  |  |  |  |  |  |  |  |                         |                            |  |  |  |  |  |  |  |  |  |  |  |  |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |  |
|---------------------|-------------------------------|------|------|---------------------------|------|------|-------------------|--|
|                     |                               |      |      |                           |      |      |                   |  |
|                     |                               |      |      |                           |      |      |                   |  |
|                     |                               |      |      |                           |      |      |                   |  |

|                                   |  |                         |  |            |                       |                               |                      |
|-----------------------------------|--|-------------------------|--|------------|-----------------------|-------------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b> |  |                         |  | Temp in °C | Received on Ice (Y/N) | Customary Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER:            |  |                         |  |            |                       |                               |                      |
| SIGNATURE of SAMPLER:             |  | DATE Signed (MM/DD/YY): |  |            |                       |                               |                      |

**Appendix C**  
**Proposed Costs**



**ASSESSMENT COMPONENT INVOICE**  
**SOUTH CAROLINA**  
 Department of Health and Environmental Control (DHEC)  
 Underground Storage Tank Program

**ASSESSMENT COMPONENT INVOICE**

UST PERMIT # 07960 COUNTY Edgefield  
 FACILITY NAME 378 Truck Stop  
 STREET ADDRESS 731 Highway 378, Edgefield, SC  
 INVOICE # \_\_\_\_\_ PO # 4600491068 COST AGREEMENT # \_\_\_\_\_  
 For work performed during (specify time period) \_\_\_\_\_ to \_\_\_\_\_

I certify, under penalty of law, 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 obtaining this information, and any other information I may be aware of, I believe that the submitted information is true, accurate, and complete. I further agree, in accordance with any DHEC demand letter, to promptly repay any overpayment received.

**\*\*Please fill out BOTH the Contractor and Responsible Party Sections (original signatures). Also indicate the Payee by placing a check in the box next to the Contractor or Responsible Party.\*\***



Payee  
 CONTRACTOR  
 Ronny Lowder 57-0910049  
 Name (Type or Print) Federal Tax ID or Social Security Number  
 Emerald, Inc. 803-469-5454  
 Company Telephone Number  
 PO Box 3050 Sumter SC 29151  
 Address City State Zip Code

Signature (please use non-black ink) Title Date Signed

Payee  
 OWNER OR OPERATOR/RESPONSIBLE PARTY *Please attach copies of Cancelled Checks (front & back)*

Name (type or Print) Federal Tax ID or Social Security Number

Company Telephone Number  
 Address City State Zip Code

Signature (please use non-black ink) Title Date Signed

**If payment is to be sent to an address other than above, please indicate below:**

Name of Individual or Company (please print) Federal Tax ID or Social Security Number

Address (please print) City State Zip Code

INVOICE AMOUNT: \$1,475.00  
 LESS SUBMITTED/PAID \_\_\_\_\_  
 WELL DRILLING COSTS: \_\_\_\_\_  
 AMOUNT REQUESTED: \$1,475.00

Amount Requested is for Assessment activities as Defined in the SCDHEC Letter



**ASSESSMENT COMPONENT INVOICE  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
August 16, 2016

**Facility Name:** 378 Truck Stop

**UST Permit #:** 07960 **Cost Agreement #:**

| ITEM  | QUANTITY | UNIT | UNIT PRICE | TOTAL             |
|---|----------|------|------------|-------------------|
| <b>1. Plan Preparation</b>  |          |      |            |                   |
| A1. Site-specific Work Plan   | 1        | each | \$125.00   | \$125.00          |
| <b>4. Mob/Demob</b>   |          |      |            |                   |
| B1. Personnel   | 1        | each | \$150.00   | \$150.00          |
| <b>18. Miscellaneous (attach receipts)</b>  |          |      |            |                   |
| Service charge to remove and replace carbon/gravel filter in large operating units            |          | each | \$1,500.00 | \$0.00            |
| Removal, cleaning, refurbishment and storage - of large capacity GAC units                    |          | each | \$1,000.00 | \$0.00            |
| Service calls to reset, repair, other service of GAC  |          | each | \$45.00    | \$0.00            |
| Lock assemblage for existing GAC housing to include lock and all necessary hardware and labor |          | each | \$10.00    | \$0.00            |
| Sample collection measurements to include, duplicate, field/trip blanks are included          | 4        | each | \$25.00    | \$100.00          |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b>        |          |      |            |                   |
| A1. New GAC System Installation*  |          | each | \$2,400.00 | \$0.00            |
| BB. Refurbished GAC Sys. Install*   |          | each | \$1,500.00 | \$0.00            |
| C1. Filter replacement/removal*   | 2        | each | \$550.00   | \$1,100.00        |
| DD. GAC System removal, cleaning, & refurbishment*  |          | each | \$500.00   | \$0.00            |
| E1. GAC System housing*   |          | each | \$250.00   | \$0.00            |
| F. In-line particulate filter   |          | each | \$175.00   | \$0.00            |
| G1. Additional piping & fittings  |          | foot | \$1.50     | \$0.00            |
| <b>TOTAL</b>  |          |      |            | <b>\$1,475.00</b> |

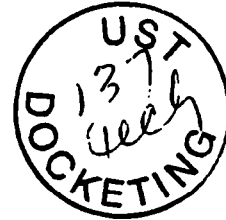




Healthy People Healthy Communities

RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

MAY 30 2018



**Re: Notice to Proceed-GAC Change and Groundwater Sample Collection**  
378 Truck Stop, 731 Highway 378, Edgefield, SC  
UST Permit #07960; Emerald CA #56412; Pace CA #56413  
FB-5400011271-4/28/16-EMW; PO #4600603935  
Site-Specific Work Plan received May 21, 2018  
Edgefield County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, collection of pre- and post- GAC unit groundwater samples has been approved for the Surry residence located at 730 Highway 378 East and Gordon residence located at 724 Highway 378 East. The pre- and post- GAC unit groundwater samples should be collected and submitted to Pace Analytical Services for analysis.

This facility has been assigned individual Cost Agreement (CA) numbers as listed above. Please reference the CA #56412 and PO #4600603935 on the invoice submitted for payment. Emerald, Inc. should complete the work in accordance with the contract specifications and established schedule. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulation. A GAC Unit Installation and Maintenance record should be submitted within **thirty (30) days** from the date of Notice to Proceed.

On all correspondence or inquiries regarding this directive, please reference UST Permit #07960, Emerald CA #56412, and Pace CA #56413. If you have any questions or need further assistance, please contact me at (803) 898-0634 or by email at [kuhnkm@dhec.sc.gov](mailto:kuhnkm@dhec.sc.gov).

Sincerely,

Kimberly Kuhn, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Adam Looper, UST Management Division (w/enc.)  
Pace Analytical Services, 9800 Kincey Avenue, Ste 100, Huntersville NC 28078 (w/enc.)  
Technical File (w/enc.)

**Approved Cost Agreement****56412**

Facility: 07960 378 TRUCK STOP

JOHNSOAL

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>                       | <u>Qty / Pct</u>    | <u>Unit Price</u> | <u>Amount</u>   |
|---------------------------|-------------------|---|---------------------|-------------------|-----------------|
| 01 PLAN                   |                   | A1 SITE SPECIFIC WORK PLAN                    | 1.0000              | \$125.000         | 125.00          |
| 04 MOB/DEMOB              |                   | B1 PERSONNEL                                  | 1.0000              | \$150.000         | 150.00          |
| 18 MISCELLANEOUS          |                   | SAMPLE COLLECTION INCLUDING DUPLICATE, FIELD/ | 4.0000              | \$30.000          | 120.00          |
| 24 GAC SYSTEM             |                   | C1 FILTER REPLACEMENT/REMOVAL                 | 2.0000              | \$550.000         | 1,100.00        |
|                           |                   |   | <b>Total Amount</b> |                   | <b>1,495.00</b> |



**Approved Cost Agreement**

**56413**

Facility: 07960 378 TRUCK STOP

JOHNSOAL

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|-----------------------------------|------------------|-------------------|---------------|
| 11 ANALYSES               |                   |                                   |                  |                   |               |
|                           | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 7.0000           | \$21.000          | 147.00        |
|                           |                   | F1 EDB BY 8011                    | 6.0000           | \$18.000          | 108.00        |
|                           |                   | <b>Total Amount</b>               |                  |                   | <b>255.00</b> |



**TREY CARTER  
 PACE ANALYTICAL SERVICES  
 9800 KINCEY AVE STE 100  
 HUNTERSVILLE NC 28078**

**JUN 21 2018**

Re: Laboratory Analyses Approval  
 (Analytical) Bid #IFB-5400012961-04/06/17-EMW; PO #4600623823

Dear Mr. Carter:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #4600603886 on the appropriate invoice submitted for payment against the facility.

| UST Number # | Facility       | Vials Needed (Y/N) | Monitoring Well (Analyses-Groundwater)          | CA #  |
|--------------|----------------|--------------------|---|-------|
| 07960        | 378 Truck Stop | N                  |   | 57353 |
|              |                |                    | <b>Water Supply Well (Analyses-Groundwater)</b> |       |
|              |                |                    | 504.1, 524.2, and 8260B                         |       |

If you have any questions or need further assistance, please contact Robert Dunn at (803) 898-0671 or [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Kyle Patterson, Hydrogeologist  
 Assessment & Unregulated Petroleum Section  
 UST Management Division  
 Bureau of Land & Waste Management

enc: Approved Cost Agreement  
 cc: Robert Dunn, Corrective Action Section  
 Technical File

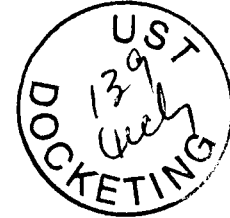
**Approved Cost Agreement****57353**

Facility: 07960 378 TRUCK STOP

JOHNSOAL

PO Number:

| <u>Task / Description</u> | <u>Categories</u>    | <u>Item Description</u>          | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|----------------------|----------------------------------|------------------|-------------------|---------------|
| 11 ANALYSES               |                      |                                  |                  |                   |               |
|                           | WATER DRINKING WATER | L BTEXNM+1,2 DCA (524.2)         | 11.0000          | \$36.000          | 396.00        |
|                           |                      | M 7-OXYGENATES & ETHANOL (8260B) | 11.0000          | \$13.000          | 143.00        |
|                           |                      | N EDB (504.1)                    | 10.0000          | \$18.000          | 180.00        |
|                           |                      | <b>Total Amount</b>              |                  |                   | <b>719.00</b> |



FRANK WILKERSON  
WILKERSON FUEL CO  
PO BOX 2835  
ROCK HILL SC 29732-4835

JUN 21 2018

Re: **SSWP Directive for an Additional Assessment**  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit #07960  
Release reported October 03, 1974  
Groundwater Sampling Report received October 16, 2017  
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Geological Resources, Inc. The report documents petroleum chemicals in the soil groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of an Additional Assessment is necessary to assess the vertical extent of contamination offsite. The Additional Assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentCleanup/QualityAssurance/>.

**Your contractor must complete the Site-Specific Work Plan (SSWP). The SSWP and Cost Proposal must be submitted within 30 days from the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #07960. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0592, fax me at (803) 898-0673, or e-mail me at [patterkc@dhec.sc.gov](mailto:patterkc@dhec.sc.gov).

Sincerely, 

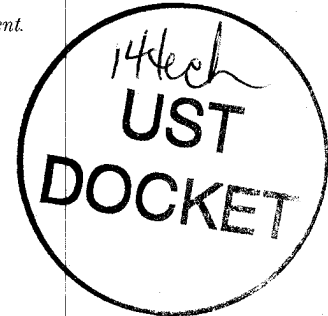
Kyle Patterson, Hydrogeologist  
Assessment & Unregulated Petroleum Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110  
Technical file



C. Earl Hunter, Commissioner

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



November 12, 2010

SIDNEY L. GORDON  
724 HWY 378 EAST  
EDGEFIELD SC 29824

Re: Recent Laboratory Results for Your Supply Well  
378 Truck Stop, 731 Hwy 378 East, Edgefield, SC  
UST Permit # 07960  
Groundwater Laboratory Analysis received November 8, 2010  
Edgefield County

Dear Mr. Gordon:

As you are aware, Environmental Compliance Services, Inc. (ECS) is conducting an environmental assessment at the referenced facility. As a part of that assessment your potable well was sampled and an elevated level of 1,2 dichloroethane (1,2-DCA) was detected. The Underground Storage Tank (UST) Division, in order to verify the results, sampled your potable well on November 4, 2010. The laboratory results confirm the sample collected from your potable well is impacted by 8.7 ug/L of 1,2-DCA, which is above its risk-based screening level (RBSL) of 5 ug/L. There were also very low detections of tert-Amyl Alcohol (tAA), Diisopropyl ether (DIPE), and Methyl-tert-butyl ether (MtBE) in the water. These detections were well below their action levels or RBSLs. The RBSL for tAA is 240 ug/L and the RBSL for DIPE is 150 ug/L. The RBSL for MtBE is 40 ug/L. I have attached the analytical report (your well is depicted as WSW-8) and the fact sheets for 1,2-DCA and MtBE, which were taken from the U.S. Department of Health and Human Services, Public Health Service Agency for Toxic Substances and Disease Registry. There were no fact sheets available for DIPE and tAA. I spoke with you on the phone on November 9, 2010, and you confirmed that you had received the e-mail stating the above-mentioned information.

Based on the possible health affects of 1,2-DCA, the UST Division recommends that you continue to use bottled water as your source of water until the Granular Activated Carbon (GAC) Unit is installed on your well and the water running through it tested. As I stated in my e-mail to you dated November 9, 2010, the GAC Unit will be installed on your well on Friday, November 12, 2010. The State Underground Petroleum Environmental Response Bank (SUPERB) Account will pay costs associated with the installation and testing of the GAC Unit and will reimburse you for the costs of the bottled water. Please save all your receipts for reimbursement.

In order to further define the extent of petroleum chemicals of concern (CoC), the UST Division is currently directing ECS to install several additional monitoring wells. Your potable well will be sampled periodically in order to ensure the water running through the GAC Unit is free of petroleum CoC. As with previous assessment activities, you will not be responsible for any costs associated with rehabilitation activities, and you will be provided a copy of the report of findings.

Your continued cooperation is appreciated. On all correspondence regarding this site, please reference UST permit number 07960. Please feel free to contact me at (803) 896-6633, if you have questions or need additional information.

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Division  
Bureau of Land and Waste Management

enc: Pace Analytical Laboratory Report received November 8, 2010  
Agency for Toxic Substances and Disease Registry  
Water Supply Well Map and Owner Information

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)  
Becky F. Campbell, PhD., Region 1 Health District, Greenwood EQC Office, (w/enc)  
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)  
Nancy Whittle, EQC Administration (w/enc)  
Donna Moye, BLWM (w/enc)  
Jeff DeBassonette, BOW (w/enc)  
Technical File (without enc)



Pace Analytical Services, LLC  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

June 29, 2018



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: 378 Truck Stop 07960/56413  
Pace Project No.: 92389337

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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without the written consent of Pace Analytical Services, LLC



## CERTIFICATIONS

Project: 378 Truck Stop 07960/56413  
Pace Project No.: 92389337

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification # 41320  
Connecticut Certification #: PH-0216  
Delaware Certification: FL NELAC Reciprocity  
Florida Certification # E83079  
Georgia Certification # 955  
Guam Certification FL NELAC Reciprocity  
Hawaii Certification FL NELAC Reciprocity  
Illinois Certification # 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification # FL NELAC Reciprocity  
Louisiana Environmental Certificate # 05007  
Maryland Certification #346  
Michigan Certification # 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification # Cert 0074  
Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification # 11608  
North Carolina Environmental Certificate # 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification #96042001  
Tennessee Certification #: TN02974  
Texas Certification FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification # 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification # 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8) FL NELAC Reciprocity

---

### Charlotte Certification IDs

9800 Kinsey Ave Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification # 37706  
North Carolina Field Services Certification # 5342  
North Carolina Wastewater Certification # 12

South Carolina Certification # 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification # 84  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC





### SAMPLE SUMMARY

Project 378 Truck Stop 07960/56413  
Pace Project No. 92389337

| Lab ID      | Sample ID              | Matrix | Date Collected | Date Received  |
|-------------|------------------------|--------|----------------|----------------|
| 92389337001 | 07960 WSW-1 PREGAC     | Water  | 06/19/18 12:40 | 06/21/18 00:00 |
| 92389337002 | 07960 WSW-1 PREGAC DUP | Water  | 06/19/18 12:43 | 06/21/18 00:00 |
| 92389337003 | 07960 WSW-1 POSTGAC    | Water  | 06/19/18 12:50 | 06/21/18 00:00 |
| 92389337004 | 07960 WSW-8 PREGAC     | Water  | 06/19/18 11:20 | 06/21/18 00:00 |
| 92389337005 | 07960 WSW-8 POSTGAC    | Water  | 06/19/18 11:30 | 06/21/18 00:00 |
| 92389337006 | 07960 WSW-2            | Water  | 06/19/18 14:20 | 06/21/18 00:00 |
| 92389337007 | 07960 WSW-4            | Water  | 06/19/18 14:50 | 06/21/18 00:00 |
| 92389337008 | 07960 WSW-5            | Water  | 06/19/18 15:15 | 06/21/18 00:00 |
| 92389337009 | 07960 WSW-6            | Water  | 06/19/18 15:40 | 06/21/18 00:00 |
| 92389337010 | 07960 FIELD BLANK      | Water  | 06/19/18 13:00 | 06/21/18 00:00 |
| 92389337011 | 07960 TRIP BLANK       | Water  | 06/19/18 00:00 | 06/21/18 00:00 |
| 92389337012 | 07960 WSW-7            | Water  | 06/20/18 10:40 | 06/21/18 00:00 |
| 92389337013 | 07960 WSW-9            | Water  | 06/20/18 11:00 | 06/21/18 00:00 |
| 92389337014 | 07960 WSW-10           | Water  | 06/20/18 12:45 | 06/21/18 00:00 |
| 92389337015 | 07960 WSW-11           | Water  | 06/20/18 12:30 | 06/21/18 00:00 |
| 92389337016 | 07960 WSW-12           | Water  | 06/20/18 12:10 | 06/21/18 00:00 |
| 92389337017 | 07960 WSW-13           | Water  | 06/20/18 12:00 | 06/21/18 00:00 |
| 92389337018 | 07960 WSW-14           | Water  | 06/20/18 11:40 | 06/21/18 00:00 |
| 92389337019 | 07960 WSW-15           | Water  | 06/20/18 11:20 | 06/21/18 00:00 |
| 92389337020 | 07960 FIELD BLANK 2    | Water  | 06/20/18 13:00 | 06/21/18 00:00 |
| 92389337021 | 07960 TRIP BLANK 2     | Water  | 06/20/18 00:00 | 06/21/18 00:00 |

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**SAMPLE ANALYTE COUNT**

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Lab ID      | Sample ID              | Method    | Analysts | Analytes Reported | Laboratory |
|-------------|------------------------|-----------|----------|-------------------|------------|
| 92389337001 | 07960 WSW-1 PREGAC     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | CAH      | 11                | PASI-C     |
| 92389337002 | 07960 WSW-1 PREGAC DUP | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | CAH      | 11                | PASI-C     |
| 92389337003 | 07960 WSW-1 POSTGAC    | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | CAH      | 11                | PASI-C     |
| 92389337004 | 07960 WSW-8 PREGAC     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | CAH      | 11                | PASI-C     |
| 92389337005 | 07960 WSW-8 POSTGAC    | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | CAH      | 11                | PASI-C     |
| 92389337006 | 07960 WSW-2            | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337007 | 07960 WSW-4            | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337008 | 07960 WSW-5            | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337009 | 07960 WSW-6            | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337010 | 07960 FIELD BLANK      | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337011 | 07960 TRIP BLANK       | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337012 | 07960 WSW-7            | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                        | EPA 8260  | GAW      | 11                | PASI-C     |
| 92389337013 | 07960 WSW-9            | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                        | EPA 524.2 | JLR      | 10                | PASI-O     |

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**SAMPLE ANALYTE COUNT**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Lab ID      | Sample ID           | Method    | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|-----------|----------|-------------------|------------|
| 92389337014 | 07960 WSW-10        | EPA 8260  | GAW      | 11                | PASI-C     |
|             |                     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524 2 | JLR      | 10                | PASI-O     |
| 92389337015 | 07960 WSW-11        | EPA 8260  | GAW      | 11                | PASI-C     |
|             |                     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524 2 | JLR      | 10                | PASI-O     |
| 92389337016 | 07960 WSW-12        | EPA 8260  | GAW      | 11                | PASI-C     |
|             |                     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524 2 | JLR      | 10                | PASI-O     |
| 92389337017 | 07960 WSW-13        | EPA 8260  | GAW      | 11                | PASI-C     |
|             |                     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524 2 | JLR      | 10                | PASI-O     |
| 92389337018 | 07960 WSW-14        | EPA 8260  | GAW      | 11                | PASI-C     |
|             |                     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524.2 | JLR      | 10                | PASI-O     |
| 92389337019 | 07960 WSW-15        | EPA 8260  | GAW      | 11                | PASI-C     |
|             |                     | EPA 504.1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524.2 | JLR      | 10                | PASI-O     |
| 92389337020 | 07960 FIELD BLANK 2 | EPA 8260  | CAH      | 11                | PASI-C     |
|             |                     | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |                     | EPA 524 2 | JLR      | 10                | PASI-O     |
| 92389337021 | 07960 TRIP BLANK 2  | EPA 8260  | CAH      | 11                | PASI-C     |
|             |                     | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                     | EPA 8260  | CAH      | 11                | PASI-C     |

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**ANALYTICAL RESULTS**

Project: 378 Truck Stop 07960/56413  
 Pace Project No.: 92389337

| Sample: 07960 WSW-1 PREGAC Lab ID: 92389337001 Collected 06/19/18 12:40 Received 06/21/18 00:00 Matrx. Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504 1 Preparation Method EPA 504.1                        |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/22/18 09 30 | 06/22/18 13 20 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 109     | %     | 70-130       |       | 1  | 06/22/18 09 30 | 06/22/18 13 20 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 02 | 71-43-2    |      |
| 1,2-Dichloroethane   | 4.5     | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 00 02 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 00:02 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 02 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 00 02 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 02 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 00:02 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 93      | %     | 70-130       |       | 1  |                | 06/22/18 00 02 | 460-00-4   |      |
| Toluene-d8 (S)   | 92      | %     | 70-130       |       | 1  |                | 06/22/18 00:02 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 101     | %     | 70-130       |       | 1  |                | 06/22/18 00:02 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | 181     | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 11 10 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 06/22/18 11 10 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 11 10 | 624-95-3   |      |
| tert-Butyl Alcohol   | 37.1J   | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 11.10 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 06/22/18 11 10 | 762-75-4   |      |
| Diisopropyl ether  | 0.34J   | ug/L  | 1 0          | 0 12  | 1  |                | 06/22/18 11 10 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 11 10 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 11:10 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 1  |                | 06/22/18 11 10 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104     | %     | 70-130       |       | 1  |                | 06/22/18 11:10 | 17060-07-0 |      |
| Toluene-d8 (S)   | 101     | %     | 70-130       |       | 1  |                | 06/22/18 11 10 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

Sample: 07960 WSW-1 PREGAC Lab ID: 92389337002 Collected: 06/19/18 12 43 Received 06/21/18 00 00 Matrx Water  
 DUP

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>504 GCS EDB and DBCP</b>                                |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 504 1 Preparation Method: EPA 504 1 |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)                                    | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/22/18 09:30 | 06/22/18 13 38 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)                                | 103     | %     | 70-130       |       | 1  | 06/22/18 09 30 | 06/22/18 13 38 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 524 2                                |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 26 | 71-43-2    |      |
| 1,2-Dichloroethane   | 4.5     | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 26 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 00 26 | 100-41-4   |      |
| Methyl-tert-butyl ether                                    | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 26 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 26 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 00 26 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 00 26 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)                                   | 94      | %     | 70-130       |       | 1  |                | 06/22/18 00 26 | 460-00-4   |      |
| Toluene-d8 (S)   | 94      | %     | 70-130       |       | 1  |                | 06/22/18 00 26 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)                                  | 103     | %     | 70-130       |       | 1  |                | 06/22/18 00 26 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>                               |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 8260                                 |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | 180     | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 11 43 | 75-85-4    |      |
| tert-Amylmethyl ether                                      | ND      | ug/L  | 10 0         | 0.10  | 1  |                | 06/22/18 11 43 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol                                     | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 11 43 | 624-95-3   |      |
| tert-Butyl Alcohol   | 36.5J   | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 11 43 | 75-65-0    | M1   |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 06/22/18 11 43 | 762-75-4   | P5   |
| Diisopropyl ether  | 0.37J   | ug/L  | 1 0          | 0 12  | 1  |                | 06/22/18 11 43 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 11.43 | 64-17-5    |      |
| Ethyl-tert-butyl ether                                     | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 11.43 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)                                   | 98      | %     | 70-130       |       | 1  |                | 06/22/18 11.43 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)                                  | 106     | %     | 70-130       |       | 1  |                | 06/22/18 11.43 | 17060-07-0 |      |
| Toluene-d8 (S)   | 102     | %     | 70-130       |       | 1  |                | 06/22/18 11.43 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-1 POSTGAC Lab ID: 92389337003 Collected 06/19/18 12 50 Received 06/21/18 00 00 Matrix Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 504 1 Preparation Method EPA 504 1  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/22/18 09:30 | 06/22/18 13:57 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 93      | %     | 70-130       |       | 1  | 06/22/18 09 30 | 06/22/18 13 57 | 301-79-56  |      |
| <b>524.2 MSV</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 524 2   |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 71-43-2    |      |
| 1,2-Dichloroethane  | 0.74    | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 00 51 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 94      | %     | 70-130       |       | 1  |                | 06/22/18 00 51 | 460-00-4   |      |
| Toluene-d8 (S)  | 92      | %     | 70-130       |       | 1  |                | 06/22/18 00 51 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 103     | %     | 70-130       |       | 1  |                | 06/22/18 00 51 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | 141     | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 11 59 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 06/22/18 11 59 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 11 59 | 624-95-3   |      |
| tert-Butyl Alcohol  | 38.2J   | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 11 59 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 06/22/18 11 59 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1 0          | 0 12  | 1  |                | 06/22/18 11 59 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 11 59 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 11 59 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 99      | %     | 70-130       |       | 1  |                | 06/22/18 11 59 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 103     | %     | 70-130       |       | 1  |                | 06/22/18 11 59 | 17060-07-0 |      |
| Toluene-d8 (S)  | 101     | %     | 70-130       |       | 1  |                | 06/22/18 11 59 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-8 PREGAC Lab ID: 92389337004 Collected: 06/19/18 11:20 Received 06/21/18 00:00 Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1 Preparation Method EPA 504 1                           |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.019        | 0.019 | 1  | 06/22/18 09:30 | 06/22/18 13:38 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 104     | %     | 70-130       |       | 1  | 06/22/18 09:30 | 06/22/18 13:38 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524 2   |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 71-43-2    |      |
| 1,2-Dichloroethane   | 0.72    | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 01:15 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 95      | %     | 70-130       |       | 1  |                | 06/22/18 01:15 | 460-00-4   |      |
| Toluene-d8 (S)   | 95      | %     | 70-130       |       | 1  |                | 06/22/18 01:15 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 106     | %     | 70-130       |       | 1  |                | 06/22/18 01:15 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 12:16 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 06/22/18 12:16 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 12:16 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3.6   | 1  |                | 06/22/18 12:16 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 06/22/18 12:16 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 06/22/18 12:16 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 12:16 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 06/22/18 12:16 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 98      | %     | 70-130       |       | 1  |                | 06/22/18 12:16 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 102     | %     | 70-130       |       | 1  |                | 06/22/18 12:16 | 17060-07-0 |      |
| Toluene-d8 (S)   | 102     | %     | 70-130       |       | 1  |                | 06/22/18 12:16 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-8 POSTGAC Lab ID: 92389337005 Collected 06/19/18 11 30 Received 06/21/18 00 00 Matrx. Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504 1 Preparation Method: EPA 504 1                        |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/22/18 09 30 | 06/22/18 13 59 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 110     | %     | 70-130       |       | 1  | 06/22/18 09 30 | 06/22/18 13 59 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524.2  |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 01:39 | 71-43-2    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 01 39 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 01 39 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 01 39 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 01 39 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 01:39 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 01 39 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 95      | %     | 70-130       |       | 1  |                | 06/22/18 01 39 | 460-00-4   |      |
| Toluene-d8 (S)  | 98      | %     | 70-130       |       | 1  |                | 06/22/18 01.39 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 107     | %     | 70-130       |       | 1  |                | 06/22/18 01 39 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 12:32 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 06/22/18 12 32 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 12 32 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 12 32 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 06/22/18 12:32 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1 0          | 0 12  | 1  |                | 06/22/18 12.32 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 12 32 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 12 32 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 98      | %     | 70-130       |       | 1  |                | 06/22/18 12:32 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 105     | %     | 70-130       |       | 1  |                | 06/22/18 12 32 | 17060-07-0 |      |
| Toluene-d8 (S)  | 101     | %     | 70-130       |       | 1  |                | 06/22/18 12 32 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-2          | Lab ID: 92389337006 | Collected: 06/19/18 14 20                                 | Received: 06/21/18 00 00 | Matrix | Water |                |                |            |      |  |
|------------------------------|---------------------|---|--------------------------|--------|-------|----------------|----------------|------------|------|--|
| Parameters                   | Results             | Units   | Report Limit             | MDL    | DF    | Prepared       | Analyzed       | CAS No     | Qual |  |
| <b>504 GCS EDB and DBCP</b>  |                     | Analytical Method: EPA 504 1 Preparation Method EPA 504.1 |                          |        |       |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND                  | ug/L  | 0 020                    | 0 020  | 1     | 06/22/18 09:30 | 06/22/18 11 08 | 106-93-4   |      |  |
| <b>Surrogates</b>            |                     |   |                          |        |       |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 109                 | %   | 70-130                   |        | 1     | 06/22/18 09 30 | 06/22/18 11 08 | 301-79-56  |      |  |
| <b>524.2 MSV</b>             |                     | Analytical Method EPA 524 2                               |                          |        |       |                |                |            |      |  |
| Benzene                      | ND                  | ug/L  | 0.50                     | 0.25   | 1     |                | 06/22/18 02 04 | 71-43-2    |      |  |
| 1,2-Dichloroethane           | ND                  | ug/L  | 0 50                     | 0 25   | 1     |                | 06/22/18 02 04 | 107-06-2   |      |  |
| Ethylbenzene                 | ND                  | ug/L  | 0 50                     | 0 25   | 1     |                | 06/22/18 02 04 | 100-41-4   |      |  |
| Methyl-tert-butyl ether      | ND                  | ug/L  | 0 50                     | 0 25   | 1     |                | 06/22/18 02 04 | 1634-04-4  |      |  |
| Naphthalene                  | ND                  | ug/L  | 0 50                     | 0 25   | 1     |                | 06/22/18 02 04 | 91-20-3    |      |  |
| Toluene                      | ND                  | ug/L  | 0.50                     | 0.25   | 1     |                | 06/22/18 02.04 | 108-88-3   |      |  |
| Xylene (Total)               | ND                  | ug/L  | 0.50                     | 0 25   | 1     |                | 06/22/18 02:04 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |                     |   |                          |        |       |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 95                  | %   | 70-130                   |        | 1     |                | 06/22/18 02 04 | 460-00-4   |      |  |
| Toluene-d8 (S)               | 97                  | %   | 70-130                   |        | 1     |                | 06/22/18 02 04 | 2037-26-5  |      |  |
| 1,2-Dichloroethane-d4 (S)    | 108                 | %   | 70-130                   |        | 1     |                | 06/22/18 02 04 | 17060-07-0 |      |  |
| <b>8260 MSV Low Level SC</b> |                     | Analytical Method: EPA 8260                               |                          |        |       |                |                |            |      |  |
| tert-Amyl Alcohol            | ND                  | ug/L  | 100                      | 50 0   | 1     |                | 06/22/18 11:09 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND                  | ug/L  | 10 0                     | 0 10   | 1     |                | 06/22/18 11:09 | 994-05-8   |      |  |
| 3,3-Dimethyl-1-Butanol       | ND                  | ug/L  | 100                      | 50 0   | 1     |                | 06/22/18 11 09 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND                  | ug/L  | 100                      | 3.6    | 1     |                | 06/22/18 11 09 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND                  | ug/L  | 50 0                     | 1 9    | 1     |                | 06/22/18 11 09 | 762-75-4   |      |  |
| Diisopropyl ether            | ND                  | ug/L  | 1 0                      | 0 12   | 1     |                | 06/22/18 11 09 | 108-20-3   |      |  |
| Ethanol                      | ND                  | ug/L  | 200                      | 131    | 1     |                | 06/22/18 11 09 | 64-17-5    |      |  |
| Ethyl-tert-butyl ether       | ND                  | ug/L  | 10 0                     | 0.070  | 1     |                | 06/22/18 11 09 | 637-92-3   |      |  |
| <b>Surrogates</b>            |                     |   |                          |        |       |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 108                 | %   | 70-130                   |        | 1     |                | 06/22/18 11:09 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 105                 | %   | 70-130                   |        | 1     |                | 06/22/18 11 09 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 105                 | %   | 70-130                   |        | 1     |                | 06/22/18 11 09 | 2037-26-5  |      |  |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No.: 92389337

| Sample: 07960 WSW-4  |         | Lab ID: 92389337007 |              | Collected: 06/19/18 14 50 |    | Received 06/21/18 00 00 |                | Matrix Water |      |
|--|---------|---------------------|--------------|---------------------------|----|-------------------------|----------------|--------------|------|
| Parameters   | Results | Units               | Report Limit | MDL                       | DF | Prepared                | Analyzed       | CAS No       | Qual |
| <b>504 GCS EDB and DBCP</b>                                |         |                     |              |                           |    |                         |                |              |      |
| Analytical Method: EPA 504 1 Preparation Method: EPA 504.1 |         |                     |              |                           |    |                         |                |              |      |
| 1,2-Dibromoethane (EDB)                                    | ND      | ug/L                | 0.020        | 0.020                     | 1  | 06/22/18 09 30          | 06/22/18 11 27 | 106-93-4     |      |
| <b>Surrogates</b>  |         |                     |              |                           |    |                         |                |              |      |
| 1-Chloro-2-bromopropane (S)                                | 99      | %                   | 70-130       |                           | 1  | 06/22/18 09 30          | 06/22/18 11 27 | 301-79-56    |      |
| <b>524.2 MSV</b>   |         |                     |              |                           |    |                         |                |              |      |
| Analytical Method EPA 524 2                                |         |                     |              |                           |    |                         |                |              |      |
| Benzene  | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 71-43-2      |      |
| 1,2-Dichloroethane   | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 107-06-2     |      |
| Ethylbenzene   | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 100-41-4     |      |
| Methyl-tert-butyl ether                                    | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 1634-04-4    |      |
| Naphthalene  | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 91-20-3      |      |
| Toluene  | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 108-88-3     |      |
| Xylene (Total)   | ND      | ug/L                | 0.50         | 0.25                      | 1  |                         | 06/22/18 02 28 | 1330-20-7    |      |
| <b>Surrogates</b>  |         |                     |              |                           |    |                         |                |              |      |
| 4-Bromofluorobenzene (S)                                   | 94      | %                   | 70-130       |                           | 1  |                         | 06/22/18 02 28 | 460-00-4     |      |
| Toluene-d8 (S)   | 96      | %                   | 70-130       |                           | 1  |                         | 06/22/18 02 28 | 2037-26-5    |      |
| 1,2-Dichloroethane-d4 (S)                                  | 107     | %                   | 70-130       |                           | 1  |                         | 06/22/18 02 28 | 17060-07-0   |      |
| <b>8260 MSV Low Level SC</b>                               |         |                     |              |                           |    |                         |                |              |      |
| Analytical Method EPA 8260                                 |         |                     |              |                           |    |                         |                |              |      |
| tert-Amyl Alcohol  | ND      | ug/L                | 100          | 50.0                      | 1  |                         | 06/22/18 11 42 | 75-85-4      |      |
| tert-Amylmethyl ether                                      | ND      | ug/L                | 10.0         | 0.10                      | 1  |                         | 06/22/18 11 42 | 994-05-8     |      |
| 3,3-Dimethyl-1-Butanol                                     | ND      | ug/L                | 100          | 50.0                      | 1  |                         | 06/22/18 11 42 | 624-95-3     |      |
| tert-Butyl Alcohol   | ND      | ug/L                | 100          | 3.6                       | 1  |                         | 06/22/18 11 42 | 75-65-0      |      |
| tert-Butyl Formate   | ND      | ug/L                | 50.0         | 1.9                       | 1  |                         | 05/22/18 11 42 | 762-75-4     | P5   |
| Diisopropyl ether  | ND      | ug/L                | 1.0          | 0.12                      | 1  |                         | 06/22/18 11 42 | 108-20-3     |      |
| Ethanol  | ND      | ug/L                | 200          | 131                       | 1  |                         | 06/22/18 11 42 | 64-17-5      |      |
| Ethyl-tert-butyl ether                                     | ND      | ug/L                | 10.0         | 0.070                     | 1  |                         | 06/22/18 11 42 | 637-92-3     |      |
| <b>Surrogates</b>  |         |                     |              |                           |    |                         |                |              |      |
| 4-Bromofluorobenzene (S)                                   | 101     | %                   | 70-130       |                           | 1  |                         | 06/22/18 11 42 | 460-00-4     |      |
| 1,2-Dichloroethane-d4 (S)                                  | 106     | %                   | 70-130       |                           | 1  |                         | 06/22/18 11 42 | 17060-07-0   |      |
| Toluene-d8 (S)   | 107     | %                   | 70-130       |                           | 1  |                         | 06/22/18 11 42 | 2037-26-5    |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-5      Lab ID: 92389337008      Collected 06/19/18 15 15      Received: 06/21/18 00 00      Matrix: Water |         |       |        |       |    |                |                |            |      |
|---|---------|-------|--------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report |       |    | Prepared       | Analyzed       | CAS No.    | Qual |
|   |         |       | Limit  | MDL   | DF |                |                |            |      |
| <b>504 GCS EDB and DBCP</b>   |         |       |        |       |    |                |                |            |      |
| Analytical Method EPA 504 1      Preparation Method EPA 504 1   |         |       |        |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020  | 0.020 | 1  | 06/22/18 09 30 | 06/22/18 12 04 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 108     | %     | 70-130 |       | 1  | 06/22/18 09 30 | 06/22/18 12 04 | 301-79-56  |      |
| <b>524.2 MSV</b>  |         |       |        |       |    |                |                |            |      |
| Analytical Method EPA 524.2   |         |       |        |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 71-43-2    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0.50   | 0.25  | 1  |                | 06/22/18 02 52 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 94      | %     | 70-130 |       | 1  |                | 06/22/18 02 52 | 460-00-4   |      |
| Toluene-d8 (S)  | 97      | %     | 70-130 |       | 1  |                | 06/22/18 02 52 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 106     | %     | 70-130 |       | 1  |                | 06/22/18 02 52 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>  |         |       |        |       |    |                |                |            |      |
| Analytical Method EPA 8260  |         |       |        |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100    | 50.0  | 1  |                | 06/22/18 11 59 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0   | 0.10  | 1  |                | 06/22/18 11 59 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100    | 50.0  | 1  |                | 06/22/18 11 59 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100    | 3.6   | 1  |                | 06/22/18 11 59 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0   | 1.9   | 1  |                | 06/22/18 11 59 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0    | 0.12  | 1  |                | 06/22/18 11 59 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200    | 131   | 1  |                | 06/22/18 11 59 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0   | 0.070 | 1  |                | 06/22/18 11 59 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 103     | %     | 70-130 |       | 1  |                | 06/22/18 11 59 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 104     | %     | 70-130 |       | 1  |                | 06/22/18 11 59 | 17060-07-0 |      |
| Toluene-d8 (S)  | 107     | %     | 70-130 |       | 1  |                | 06/22/18 11 59 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-6      Lab ID: 92389337009      Collected: 06/19/18 15:40      Received 06/21/18 00:00      Matrx Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1      Preparation Method. EPA 504 1                                |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 06/22/18 09 30 | 06/22/18 12.23 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 132     | %     | 70-130       |       | 1  | 06/22/18 09 30 | 06/22/18 12:23 | 301-79-56  | S3   |
| <b>524.2 MSV</b> Analytical Method EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03 17 | 71-43-2    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03.17 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03 17 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03 17 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03 17 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03 17 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03 17 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 93      | %     | 70-130       |       | 1  |                | 06/22/18 03 17 | 460-00-4   |      |
| Toluene-d8 (S)  | 98      | %     | 70-130       |       | 1  |                | 06/22/18 03 17 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 107     | %     | 70-130       |       | 1  |                | 06/22/18 03.17 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 12 15 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 06/22/18 12 15 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 12 15 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 3.6   | 1  |                | 06/22/18 12 15 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 06/22/18 12 15 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 06/22/18 12 15 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 12 15 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 06/22/18 12 15 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 100     | %     | 70-130       |       | 1  |                | 06/22/18 12 15 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 106     | %     | 70-130       |       | 1  |                | 06/22/18 12 15 | 17060-07-0 |      |
| Toluene-d8 (S)  | 107     | %     | 70-130       |       | 1  |                | 06/22/18 12 15 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 Truck Stop 07960/56413  
 Pace Project No. 92389337

Sample: 07960 FIELD BLANK Lab ID: 92389337010 Collected: 06/19/18 13 00 Received 06/21/18 00 00 Matrix: Water

| Parameters                   | Results | Units   | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
|------------------------------|---------|---|--------------|-------|----|----------------|----------------|------------|------|
| <b>504 GCS EDB and DBCP</b>  |         | Analytical Method: EPA 504 1 Preparation Method EPA 504 1 |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L  | 0 019        | 0.019 | 1  | 06/22/18 09:30 | 06/22/18 12 41 | 106-93-4   |      |
| <b>Surrogates</b>            |         |   |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 105     | %   | 70-130       |       | 1  | 06/22/18 09 30 | 06/22/18 12 41 | 301-79-56  |      |
| <b>524.2 MSV</b>             |         | Analytical Method: EPA 524 2                              |              |       |    |                |                |            |      |
| Benzene                      | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 03:41 | 71-43-2    |      |
| 1,2-Dichloroethane           | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 03.41 | 107-06-2   |      |
| Ethylbenzene                 | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 03 41 | 100-41-4   |      |
| Methyl-tert-butyl ether      | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 03 41 | 1634-04-4  |      |
| Naphthalene                  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 03 41 | 91-20-3    |      |
| Toluene                      | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 03.41 | 108-88-3   |      |
| Xylene (Total)               | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 03:41 | 1330-20-7  |      |
| <b>Surrogates</b>            |         |   |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)     | 94      | %   | 70-130       |       | 1  |                | 06/22/18 03 41 | 460-00-4   |      |
| Toluene-d8 (S)               | 97      | %   | 70-130       |       | 1  |                | 06/22/18 03 41 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 109     | %   | 70-130       |       | 1  |                | 06/22/18 03 41 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method: EPA 8260                               |              |       |    |                |                |            |      |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 12 32 | 75-85-4    |      |
| tert-Amylmethyl ether        | ND      | ug/L  | 10.0         | 0 10  | 1  |                | 06/22/18 12 32 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 12 32 | 624-95-3   |      |
| tert-Butyl Alcohol           | ND      | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 12 32 | 75-65-0    |      |
| tert-Butyl Formate           | ND      | ug/L  | 50 0         | 1.9   | 1  |                | 06/22/18 12 32 | 762-75-4   |      |
| Diisopropyl ether            | ND      | ug/L  | 1 0          | 0.12  | 1  |                | 06/22/18 12 32 | 108-20-3   |      |
| Ethanol                      | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 12.32 | 64-17-5    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 12 32 | 637-92-3   |      |
| <b>Surrogates</b>            |         |   |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)     | 102     | %   | 70-130       |       | 1  |                | 06/22/18 12 32 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 104     | %   | 70-130       |       | 1  |                | 06/22/18 12 32 | 17060-07-0 |      |
| Toluene-d8 (S)               | 105     | %   | 70-130       |       | 1  |                | 06/22/18 12 32 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 TRIP BLANK     |         | Lab ID: 92389337011          |              | Collected | 06/19/18 00 00 | Received | 06/21/18 00 00 | Matrix     | Water |
|------------------------------|---------|------------------------------|--------------|-----------|----------------|----------|----------------|------------|-------|
| Parameters                   | Results | Units                        | Report Limit | MDL       | DF             | Prepared | Analyzed       | CAS No.    | Qual  |
| <b>524.2 MSV</b>             |         | Analytical Method: EPA 524 2 |              |           |                |          |                |            |       |
| Benzene                      | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 71-43-2    |       |
| 1,2-Dichloroethane           | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 107-06-2   |       |
| Ethylbenzene                 | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 100-41-4   |       |
| Methyl-tert-butyl ether      | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 1634-04-4  |       |
| Naphthalene                  | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 91-20-3    |       |
| Toluene                      | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 108-88-3   |       |
| Xylene (Total)               | ND      | ug/L                         | 0.50         | 0.25      | 1              |          | 06/22/18 12:48 | 1330-20-7  |       |
| <b>Surrogates</b>            |         |                              |              |           |                |          |                |            |       |
| 4-Bromofluorobenzene (S)     | 93      | %                            | 70-130       |           | 1              |          | 06/22/18 12:48 | 460-00-4   |       |
| Toluene-d8 (S)               | 99      | %                            | 70-130       |           | 1              |          | 06/22/18 12:48 | 2037-26-5  |       |
| 1,2-Dichloroethane-d4 (S)    | 109     | %                            | 70-130       |           | 1              |          | 06/22/18 12:48 | 17060-07-0 |       |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method EPA 8260   |              |           |                |          |                |            |       |
| tert-Amyl Alcohol            | ND      | ug/L                         | 100          | 50.0      | 1              |          | 06/22/18 10:52 | 75-85-4    |       |
| tert-Amylmethyl ether        | ND      | ug/L                         | 10.0         | 0.10      | 1              |          | 06/22/18 10:52 | 994-05-8   |       |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                         | 100          | 50.0      | 1              |          | 06/22/18 10:52 | 624-95-3   |       |
| tert-Butyl Alcohol           | ND      | ug/L                         | 100          | 3.6       | 1              |          | 06/22/18 10:52 | 75-65-0    |       |
| tert-Butyl Formate           | ND      | ug/L                         | 50.0         | 1.9       | 1              |          | 06/22/18 10:52 | 762-75-4   |       |
| Diisopropyl ether            | ND      | ug/L                         | 1.0          | 0.12      | 1              |          | 06/22/18 10:52 | 108-20-3   |       |
| Ethanol                      | ND      | ug/L                         | 200          | 131       | 1              |          | 06/22/18 10:52 | 64-17-5    |       |
| Ethyl-tert-butyl ether       | ND      | ug/L                         | 10.0         | 0.070     | 1              |          | 06/22/18 10:52 | 637-92-3   |       |
| <b>Surrogates</b>            |         |                              |              |           |                |          |                |            |       |
| 4-Bromofluorobenzene (S)     | 102     | %                            | 70-130       |           | 1              |          | 06/22/18 10:52 | 460-00-4   |       |
| 1,2-Dichloroethane-d4 (S)    | 103     | %                            | 70-130       |           | 1              |          | 06/22/18 10:52 | 17060-07-0 |       |
| Toluene-d8 (S)               | 107     | %                            | 70-130       |           | 1              |          | 06/22/18 10:52 | 2037-26-5  |       |

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**ANALYTICAL RESULTS**

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-7          |         | Lab ID: 92389337012                                      |              | Collected 06/20/18 10:40 | Received 06/21/18 00:00 | Matrix Water   |                |            |      |  |
|------------------------------|---------|--|--------------|--------------------------|-------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units  | Report Limit | MDL                      | DF                      | Prepared       | Analyzed       | CAS No     | Qual |  |
| <b>504 GCS EDB and DBCP</b>  |         | Analytical Method EPA 504 1 Preparation Method EPA 504 1 |              |                          |                         |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.020        | 0.020                    | 1                       | 06/28/18 09:17 | 06/28/18 16:48 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |  |              |                          |                         |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 105     | %  | 70-130       |                          | 1                       | 06/28/18 09:17 | 06/28/18 16:48 | 301-79-56  |      |  |
| <b>524.2 MSV</b>             |         | Analytical Method EPA 524 2                              |              |                          |                         |                |                |            |      |  |
| Benzene                      | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 71-43-2    |      |  |
| 1,2-Dichloroethane           | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 107-06-2   |      |  |
| Ethylbenzene                 | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 100-41-4   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L   | 0.50         | 0.25                     | 1                       |                | 06/22/18 04:47 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |  |              |                          |                         |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 91      | %  | 70-130       |                          | 1                       |                | 06/22/18 04:47 | 460-00-4   | HS   |  |
| Toluene-d8 (S)               | 98      | %  | 70-130       |                          | 1                       |                | 06/22/18 04:47 | 2037-26-5  |      |  |
| 1,2-Dichloroethane-d4 (S)    | 107     | %  | 70-130       |                          | 1                       |                | 06/22/18 04:47 | 17060-07-0 |      |  |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method EPA 8260                               |              |                          |                         |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L   | 100          | 50.0                     | 1                       |                | 06/22/18 12:49 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0         | 0.10                     | 1                       |                | 06/22/18 12:49 | 994-05-8   |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100          | 50.0                     | 1                       |                | 06/22/18 12:49 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L   | 100          | 3.6                      | 1                       |                | 06/22/18 12:49 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L   | 50.0         | 1.9                      | 1                       |                | 06/22/18 12:49 | 762-75-4   |      |  |
| Diisopropyl ether            | ND      | ug/L   | 1.0          | 0.12                     | 1                       |                | 06/22/18 12:49 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L   | 200          | 131                      | 1                       |                | 06/22/18 12:49 | 64-17-5    |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0         | 0.070                    | 1                       |                | 06/22/18 12:49 | 637-92-3   |      |  |
| <b>Surrogates</b>            |         |  |              |                          |                         |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 107     | %  | 70-130       |                          | 1                       |                | 06/22/18 12:49 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 105     | %  | 70-130       |                          | 1                       |                | 06/22/18 12:49 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 107     | %  | 70-130       |                          | 1                       |                | 06/22/18 12:49 | 2037-26-5  |      |  |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No. 92389337

| Sample: 07960 WSW-9      Lab ID: 92389337013      Collected: 06/20/18 11 00      Received: 06/21/18 00 00      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 504 1      Preparation Method: EPA 504 1  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 06/28/18 09:17 | 06/28/18 17:50 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 98      | %     | 70-130       |       | 1  | 06/28/18 09:17 | 06/28/18 17:50 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 524 2   |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07:10 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 95      | %     | 70-130       |       | 1  |                | 06/22/18 07:10 | 460-00-4   |      |
| Toluene-d8 (S)   | 97      | %     | 70-130       |       | 1  |                | 06/22/18 07:10 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 107     | %     | 70-130       |       | 1  |                | 06/22/18 07:10 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 13:06 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 06/22/18 13:06 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 13:06 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3.6   | 1  |                | 06/22/18 13:06 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 06/22/18 13:06 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 06/22/18 13:06 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 13:06 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 06/22/18 13:06 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 104     | %     | 70-130       |       | 1  |                | 06/22/18 13:06 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 105     | %     | 70-130       |       | 1  |                | 06/22/18 13:06 | 17060-07-0 |      |
| Toluene-d8 (S)   | 103     | %     | 70-130       |       | 1  |                | 06/22/18 13:06 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-10   |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Lab ID: 92389337014 Collected: 06/20/18 12:45 Received 06/21/18 00 00 Matrix Water |         |       |              |       |    |                |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 504 1 Preparation Method EPA 504.1                           |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0 020 | 1  | 06/28/18 09 17 | 06/28/18 18.12 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 110     | %     | 70-130       |       | 1  | 06/28/18 09 17 | 06/28/18 18 12 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 524.2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 07 34 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 07 34 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 07 34 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 07 34 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 07 34 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 07 34 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/22/18 07 34 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 92      | %     | 70-130       |       | 1  |                | 06/22/18 07 34 | 460-00-4   |      |
| Toluene-d8 (S)   | 100     | %     | 70-130       |       | 1  |                | 06/22/18 07 34 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |       | 1  |                | 06/22/18 07.34 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 13:23 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 06/22/18 13:23 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 13 23 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3.6   | 1  |                | 06/22/18 13.23 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 06/22/18 13 23 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0 12  | 1  |                | 06/22/18 13:23 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 13 23 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 13 23 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 101     | %     | 70-130       |       | 1  |                | 06/22/18 13 23 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104     | %     | 70-130       |       | 1  |                | 06/22/18 13 23 | 17060-07-0 |      |
| Toluene-d8 (S)   | 107     | %     | 70-130       |       | 1  |                | 06/22/18 13 23 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No.: 92389337

| Sample: 07960 WSW-11         |         | Lab ID: 92389337015                                       |              | Collected: 06/20/18 12:30 | Received: 06/21/18 00:00 | Matrix: Water  |                |            |      |  |
|------------------------------|---------|---|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters                   | Results | Units   | Report Limit | MDL                       | DF                       | Prepared       | Analyzed       | CAS No     | Qual |  |
| <b>504 GCS EDB and DBCP</b>  |         | Analytical Method EPA 504 1 Preparation Method: EPA 504 1 |              |                           |                          |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L  | 0 020        | 0 020                     | 1                        | 06/28/18 09 17 | 06/28/18 18:33 | 106-93-4   |      |  |
| <b>Surrogates</b>            |         |   |              |                           |                          |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 100     | %   | 70-130       |                           | 1                        | 06/28/18 09:17 | 06/28/18 18 33 | 301-79-56  |      |  |
| <b>524.2 MSV</b>             |         | Analytical Method EPA 524 2                               |              |                           |                          |                |                |            |      |  |
| Benzene                      | ND      | ug/L  | 0 50         | 0 25                      | 1                        |                | 06/22/18 07:58 | 71-43-2    |      |  |
| 1,2-Dichloroethane           | ND      | ug/L  | 0 50         | 0 25                      | 1                        |                | 06/22/18 07 58 | 107-06-2   |      |  |
| Ethylbenzene                 | ND      | ug/L  | 0 50         | 0 25                      | 1                        |                | 06/22/18 07 58 | 100-41-4   |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L  | 0 50         | 0.25                      | 1                        |                | 06/22/18 07 58 | 1634-04-4  |      |  |
| Naphthalene                  | ND      | ug/L  | 0 50         | 0 25                      | 1                        |                | 06/22/18 07 58 | 91-20-3    |      |  |
| Toluene                      | ND      | ug/L  | 0 50         | 0 25                      | 1                        |                | 06/22/18 07 58 | 108-88-3   |      |  |
| Xylene (Total)               | ND      | ug/L  | 0 50         | 0 25                      | 1                        |                | 06/22/18 07 58 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |         |   |              |                           |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 94      | %   | 70-130       |                           | 1                        |                | 06/22/18 07 58 | 460-00-4   |      |  |
| Toluene-d8 (S)               | 98      | %   | 70-130       |                           | 1                        |                | 06/22/18 07 58 | 2037-26-5  |      |  |
| 1,2-Dichloroethane-d4 (S)    | 110     | %   | 70-130       |                           | 1                        |                | 06/22/18 07 58 | 17060-07-0 |      |  |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method EPA 8260                                |              |                           |                          |                |                |            |      |  |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 50 0                      | 1                        |                | 06/22/18 13 39 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND      | ug/L  | 10 0         | 0 10                      | 1                        |                | 06/22/18 13 39 | 994-05-8   |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 50 0                      | 1                        |                | 06/22/18 13 39 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND      | ug/L  | 100          | 3 6                       | 1                        |                | 06/22/18 13 39 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND      | ug/L  | 50 0         | 1 9                       | 1                        |                | 06/22/18 13:39 | 762-75-4   |      |  |
| Diisopropyl ether            | ND      | ug/L  | 1 0          | 0 12                      | 1                        |                | 06/22/18 13 39 | 108-20-3   |      |  |
| Ethanol                      | ND      | ug/L  | 200          | 131                       | 1                        |                | 06/22/18 13 39 | 64-17-5    |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10 0         | 0 070                     | 1                        |                | 06/22/18 13 39 | 637-92-3   |      |  |
| <b>Surrogates</b>            |         |   |              |                           |                          |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 108     | %   | 70-130       |                           | 1                        |                | 06/22/18 13:39 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 107     | %   | 70-130       |                           | 1                        |                | 06/22/18 13 39 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 102     | %   | 70-130       |                           | 1                        |                | 06/22/18 13 39 | 2037-26-5  |      |  |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-12      Lab ID: 92389337016      Collected: 06/20/18 12:10      Received: 06/21/18 00:00      Matrx: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504.1      Preparation Method EPA 504.1                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 06/28/18 09:17 | 06/28/18 19:15 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 95      | %     | 70-130       |       | 1  | 06/28/18 09:17 | 06/28/18 19:15 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524.2   |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:22 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 95      | %     | 70-130       |       | 1  |                | 06/22/18 08:22 | 460-00-4   |      |
| Toluene-d8 (S)   | 97      | %     | 70-130       |       | 1  |                | 06/22/18 08:22 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |       | 1  |                | 06/22/18 08:22 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 13:56 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 06/22/18 13:56 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 13:56 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3.6   | 1  |                | 06/22/18 13:56 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 06/22/18 13:56 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 06/22/18 13:56 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 13:56 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 06/22/18 13:56 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 1  |                | 06/22/18 13:56 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 105     | %     | 70-130       |       | 1  |                | 06/22/18 13:56 | 17060-07-0 |      |
| Toluene-d8 (S)   | 106     | %     | 70-130       |       | 1  |                | 06/22/18 13:56 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-13      Lab ID: 92389337017      Collected: 06/20/18 12 00      Received 06/21/18 00 00      Matrix Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1      Preparation Method EPA 504 1                                   |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 06/28/18 09:17 | 06/28/18 19:36 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 102     | %     | 70-130       |       | 1  | 06/28/18 09:17 | 06/28/18 19:36 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 71-43-2    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/22/18 08:46 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 93      | %     | 70-130       |       | 1  |                | 06/22/18 08:46 | 460-00-4   |      |
| Toluene-d8 (S)  | 97      | %     | 70-130       |       | 1  |                | 06/22/18 08:46 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 108     | %     | 70-130       |       | 1  |                | 06/22/18 08:46 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 14:13 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 06/22/18 14:13 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 14:13 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 3.6   | 1  |                | 06/22/18 14:13 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 06/22/18 14:13 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.12  | 1  |                | 06/22/18 14:13 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 14:13 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 06/22/18 14:13 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 101     | %     | 70-130       |       | 1  |                | 06/22/18 14:13 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 107     | %     | 70-130       |       | 1  |                | 06/22/18 14:13 | 17060-07-0 |      |
| Toluene-d8 (S)  | 108     | %     | 70-130       |       | 1  |                | 06/22/18 14:13 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project. 378 Truck Stop 07960/56413  
 Pace Project No.. 92389337

| Sample: 07960 WSW-14      Lab ID: 92389337018      Collected. 06/20/18 11 40      Received 06/21/18 00:00      Matrix. Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1      Preparation Method EPA 504 1                                    |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/28/18 09:17 | 06/28/18 19 57 | 106-93-4   |      |
| <i>Surrogates</i>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 99      | %     | 70-130       |       | 1  | 06/28/18 09:17 | 06/28/18 19 57 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524 2   |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 09 10 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 09 10 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 09 10 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 09 10 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 09 10 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 09 10 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/22/18 09 10 | 1330-20-7  |      |
| <i>Surrogates</i>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 94      | %     | 70-130       |       | 1  |                | 06/22/18 09 10 | 460-00-4   |      |
| Toluene-d8 (S)   | 96      | %     | 70-130       |       | 1  |                | 06/22/18 09 10 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |       | 1  |                | 06/22/18 09 10 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 14 30 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 06/22/18 14 30 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 14 30 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 14 30 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 1 9   | 1  |                | 06/22/18 14 30 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0 12  | 1  |                | 06/22/18 14:30 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 14:30 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 06/22/18 14:30 | 637-92-3   |      |
| <i>Surrogates</i>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 105     | %     | 70-130       |       | 1  |                | 06/22/18 14 30 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 106     | %     | 70-130       |       | 1  |                | 06/22/18 14 30 | 17060-07-0 |      |
| Toluene-d8 (S)   | 100     | %     | 70-130       |       | 1  |                | 06/22/18 14 30 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 WSW-15         | Lab ID: 92389337019 | Collected 06/20/18 11 20                                 | Received 06/21/18 00 00 | Matrix | Water |                |                |            |      |  |
|------------------------------|---------------------|--|-------------------------|--------|-------|----------------|----------------|------------|------|--|
| Parameters                   | Results             | Units  | Report Limit            | MDL    | DF    | Prepared       | Analyzed       | CAS No.    | Qual |  |
| <b>504 GCS EDB and DBCP</b>  |                     | Analytical Method EPA 504 1 Preparation Method EPA 504 1 |                         |        |       |                |                |            |      |  |
| 1,2-Dibromoethane (EDB)      | ND                  | ug/L   | 0.020                   | 0.020  | 1     | 06/28/18 09:17 | 06/28/18 20:18 | 106-93-4   |      |  |
| <b>Surrogates</b>            |                     |  |                         |        |       |                |                |            |      |  |
| 1-Chloro-2-bromopropane (S)  | 96                  | %  | 70-130                  |        | 1     | 06/28/18 09:17 | 06/28/18 20:18 | 301-79-56  |      |  |
| <b>524.2 MSV</b>             |                     | Analytical Method EPA 524 2                              |                         |        |       |                |                |            |      |  |
| Benzene                      | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 71-43-2    |      |  |
| 1,2-Dichloroethane           | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 107-06-2   |      |  |
| Ethylbenzene                 | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 100-41-4   |      |  |
| Methyl-tert-butyl ether      | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 1634-04-4  |      |  |
| Naphthalene                  | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 91-20-3    |      |  |
| Toluene                      | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 108-88-3   |      |  |
| Xylene (Total)               | ND                  | ug/L   | 0.50                    | 0.25   | 1     |                | 06/22/18 09:33 | 1330-20-7  |      |  |
| <b>Surrogates</b>            |                     |  |                         |        |       |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 94                  | %  | 70-130                  |        | 1     |                | 06/22/18 09:33 | 460-00-4   |      |  |
| Toluene-d8 (S)               | 96                  | %  | 70-130                  |        | 1     |                | 06/22/18 09:33 | 2037-26-5  |      |  |
| 1,2-Dichloroethane-d4 (S)    | 107                 | %  | 70-130                  |        | 1     |                | 06/22/18 09:33 | 17060-07-0 |      |  |
| <b>8260 MSV Low Level SC</b> |                     | Analytical Method EPA 8260                               |                         |        |       |                |                |            |      |  |
| tert-Amyl Alcohol            | ND                  | ug/L   | 100                     | 50.0   | 1     |                | 06/22/18 12:48 | 75-85-4    |      |  |
| tert-Amylmethyl ether        | ND                  | ug/L   | 10.0                    | 0.10   | 1     |                | 06/22/18 12:48 | 994-05-8   |      |  |
| 3,3-Dimethyl-1-Butanol       | ND                  | ug/L   | 100                     | 50.0   | 1     |                | 06/22/18 12:48 | 624-95-3   |      |  |
| tert-Butyl Alcohol           | ND                  | ug/L   | 100                     | 3.6    | 1     |                | 06/22/18 12:48 | 75-65-0    |      |  |
| tert-Butyl Formate           | ND                  | ug/L   | 50.0                    | 1.9    | 1     |                | 06/22/18 12:48 | 762-75-4   |      |  |
| Diisopropyl ether            | ND                  | ug/L   | 1.0                     | 0.12   | 1     |                | 06/22/18 12:48 | 108-20-3   |      |  |
| Ethanol                      | ND                  | ug/L   | 200                     | 131    | 1     |                | 06/22/18 12:48 | 64-17-5    |      |  |
| Ethyl-tert-butyl ether       | ND                  | ug/L   | 10.0                    | 0.070  | 1     |                | 06/22/18 12:48 | 637-92-3   |      |  |
| <b>Surrogates</b>            |                     |  |                         |        |       |                |                |            |      |  |
| 4-Bromofluorobenzene (S)     | 98                  | %  | 70-130                  |        | 1     |                | 06/22/18 12:48 | 460-00-4   |      |  |
| 1,2-Dichloroethane-d4 (S)    | 105                 | %  | 70-130                  |        | 1     |                | 06/22/18 12:48 | 17060-07-0 |      |  |
| Toluene-d8 (S)               | 101                 | %  | 70-130                  |        | 1     |                | 06/22/18 12:48 | 2037-26-5  |      |  |

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**ANALYTICAL RESULTS**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| Sample: 07960 FIELD BLANK 2 Lab ID: 92389337020 Collected 06/20/18 13 00 Received: 06/21/18 00 00 Matrix Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504.1 Preparation Method. EPA 504 1                          |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/28/18 09 17 | 06/29/18 06 35 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 109     | %     | 70-130       |       | 1  | 06/28/18 09 17 | 06/29/18 06 35 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13 13 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13 13 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13 13 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13 13 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13 13 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13.13 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/22/18 13.13 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 94      | %     | 70-130       |       | 1  |                | 06/22/18 13:13 | 460-00-4   |      |
| Toluene-d8 (S)   | 99      | %     | 70-130       |       | 1  |                | 06/22/18 13:13 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 109     | %     | 70-130       |       | 1  |                | 06/22/18 13 13 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/22/18 13 05 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 06/22/18 13 05 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50.0  | 1  |                | 06/22/18 13 05 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3 6   | 1  |                | 06/22/18 13 05 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 06/22/18 13 05 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0 12  | 1  |                | 06/22/18 13 05 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/22/18 13 05 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 06/22/18 13 05 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 97      | %     | 70-130       |       | 1  |                | 06/22/18 13 05 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 101     | %     | 70-130       |       | 1  |                | 06/22/18 13 05 | 17060-07-0 |      |
| Toluene-d8 (S)   | 102     | %     | 70-130       |       | 1  |                | 06/22/18 13 05 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project: 378 Truck Stop 07960/56413  
 Pace Project No.: 92389337

Sample: 07960 TRIP BLANK 2 Lab ID: 92389337021 Collected: 06/20/18 00:00 Received 06/21/18 00:00 Matrix Water

| Parameters                   | Results | Units | Report Limit | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| <b>524.2 MSV</b>             |         |       |              |       |    |          |                |            |      |
| Analytical Method: EPA 524.2 |         |       |              |       |    |          |                |            |      |
| Benzene                      | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 71-43-2    |      |
| 1,2-Dichloroethane           | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 107-06-2   |      |
| Ethylbenzene                 | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 100-41-4   |      |
| Methyl-tert-butyl ether      | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 1634-04-4  |      |
| Naphthalene                  | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 91-20-3    |      |
| Toluene                      | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 108-88-3   |      |
| Xylene (Total)               | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 06/22/18 03:10 | 1330-20-7  |      |
| <b>Surrogates</b>            |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 94      | %     | 70-130       |       | 1  |          | 06/22/18 03:10 | 460-00-4   |      |
| Toluene-d8 (S)               | 103     | %     | 70-130       |       | 1  |          | 06/22/18 03:10 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 103     | %     | 70-130       |       | 1  |          | 06/22/18 03:10 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> |         |       |              |       |    |          |                |            |      |
| Analytical Method: EPA 8260  |         |       |              |       |    |          |                |            |      |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 50.0  | 1  |          | 06/22/18 13:21 | 75-85-4    |      |
| tert-Amylmethyl ether        | ND      | ug/L  | 10.0         | 0.10  | 1  |          | 06/22/18 13:21 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 50.0  | 1  |          | 06/22/18 13:21 | 624-95-3   |      |
| tert-Butyl Alcohol           | ND      | ug/L  | 100          | 3.6   | 1  |          | 06/22/18 13:21 | 75-65-0    |      |
| tert-Butyl Formate           | ND      | ug/L  | 50.0         | 1.9   | 1  |          | 06/22/18 13:21 | 762-75-4   |      |
| Diisopropyl ether            | ND      | ug/L  | 1.0          | 0.12  | 1  |          | 06/22/18 13:21 | 108-20-3   |      |
| Ethanol                      | ND      | ug/L  | 200          | 131   | 1  |          | 06/22/18 13:21 | 64-17-5    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10.0         | 0.070 | 1  |          | 06/22/18 13:21 | 637-92-3   |      |
| <b>Surrogates</b>            |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 98      | %     | 70-130       |       | 1  |          | 06/22/18 13:21 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 103     | %     | 70-130       |       | 1  |          | 06/22/18 13:21 | 17060-07-0 |      |
| Toluene-d8 (S)               | 101     | %     | 70-130       |       | 1  |          | 06/22/18 13:21 | 2037-26-5  |      |

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**QUALITY CONTROL DATA**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

QC Batch 456381 Analysis Method. EPA 524 2  
 QC Batch Method EPA 524 2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92389337021

METHOD BLANK 2471105 Matrix: Water  
 Associated Lab Samples: 92389337021

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 21 29 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 104          | 70-130          |      | 06/21/18 21 29 |            |
| 4-Bromofluorobenzene (S)  | %     | 95           | 70-130          |      | 06/21/18 21 29 |            |
| Toluene-d8 (S)            | %     | 102          | 70-130          |      | 06/21/18 21 29 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2471106 2471107

| Parameter                 | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 10         | 9.6        | 10.0        | 96        | 100        | 70-130       | 5   | 40      |            |
| Benzene                   | ug/L  | 10         | 9.1        | 9.2         | 91        | 92         | 70-130       | 1   | 40      |            |
| Ethylbenzene              | ug/L  | 10         | 9.0        | 9.1         | 90        | 91         | 70-130       | 1   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 10         | 9.5        | 10.1        | 95        | 101        | 70-130       | 7   | 40      |            |
| Naphthalene               | ug/L  | 10         | 8.1        | 8.4         | 81        | 84         | 70-130       | 3   | 40      |            |
| Toluene                   | ug/L  | 10         | 9.0        | 9.0         | 90        | 90         | 70-130       | 0   | 40      |            |
| Xylene (Total)            | ug/L  | 30         | 25.6       | 25.8        | 85        | 86         | 70-130       | 1   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            |             | 98        | 98         | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |            |            |             | 100       | 99         | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |            |            |             | 97        | 98         | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

QC Batch 456393 Analysis Method: EPA 524 2  
 QC Batch Method EPA 524 2 Analysis Description 524 2 MSV  
 Associated Lab Samples 92389337001, 92389337002, 92389337003, 92389337004, 92389337005, 92389337006, 92389337007,  
 92389337008, 92389337009, 92389337010, 92389337012, 92389337013, 92389337014, 92389337015,  
 92389337016, 92389337017, 92389337018, 92389337019

METHOD BLANK 2471171 Matrix: Water  
 Associated Lab Samples 92389337001, 92389337002, 92389337003, 92389337004, 92389337005, 92389337006, 92389337007,  
 92389337008, 92389337009, 92389337010, 92389337012, 92389337013, 92389337014, 92389337015,  
 92389337016, 92389337017, 92389337018, 92389337019

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 06/21/18 23 37 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 107          | 70-130          |      | 06/21/18 23 37 |            |
| 4-Bromofluorobenzene (S)  | %     | 93           | 70-130          |      | 06/21/18 23 37 |            |
| Toluene-d8 (S)            | %     | 97           | 70-130          |      | 06/21/18 23 37 |            |

| Parameter                 | Units | 2471172    |            | 2471173     |           | % Rec Limits | RPD    | Max RPD | Qualifiers |
|---------------------------|-------|------------|------------|-------------|-----------|--------------|--------|---------|------------|
|                           |       | Spike Conc | LCS Result | LCSD Result | LCS % Rec |              |        |         |            |
| 1,2-Dichloroethane        | ug/L  | 10         | 9.2        | 9.2         | 92        | 92           | 70-130 | 1       | 40         |
| Benzene                   | ug/L  | 10         | 9.6        | 9.8         | 96        | 98           | 70-130 | 3       | 40         |
| Ethylbenzene              | ug/L  | 10         | 9.6        | 9.7         | 96        | 97           | 70-130 | 1       | 40         |
| Methyl-tert-butyl ether   | ug/L  | 10         | 9.3        | 9.7         | 93        | 97           | 70-130 | 4       | 40         |
| Naphthalene               | ug/L  | 10         | 7.1        | 8.1         | 71        | 81           | 70-130 | 13      | 40         |
| Toluene                   | ug/L  | 10         | 9.4        | 9.4         | 94        | 94           | 70-130 | 0       | 40         |
| Xylene (Total)            | ug/L  | 30         | 27.3       | 27.4        | 91        | 91           | 70-130 | 0       | 40         |
| 1,2-Dichloroethane-d4 (S) | %     |            |            |             | 105       | 104          | 70-130 |         |            |
| 4-Bromofluorobenzene (S)  | %     |            |            |             | 98        | 100          | 70-130 |         |            |
| Toluene-d8 (S)            | %     |            |            |             | 98        | 100          | 70-130 |         |            |

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### QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/56413  
Pace Project No 92389337

|                        |                          |                      |           |
|------------------------|--------------------------|----------------------|-----------|
| QC Batch               | 456605                   | Analysis Method      | EPA 524 2 |
| QC Batch Method        | EPA 524 2                | Analysis Description | 524 2 MSV |
| Associated Lab Samples | 92389337011, 92389337020 |                      |           |

METHOD BLANK 2472142 Matrix: Water

Associated Lab Samples: 92389337011, 92389337020

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 06/22/18 12.24 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 110          | 70-130          |      | 06/22/18 12.24 |            |
| 4-Bromofluorobenzene (S)  | %     | 93           | 70-130          |      | 06/22/18 12.24 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          |      | 06/22/18 12.24 |            |

LABORATORY CONTROL SAMPLE & LCSD 2472143

2472144

| Parameter                 | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 10         | 9.3        | 9.0         | 93        | 90         | 70-130       | 2   | 40      |            |
| Benzene                   | ug/L  | 10         | 9.5        | 9.6         | 95        | 96         | 70-130       | 1   | 40      |            |
| Ethylbenzene              | ug/L  | 10         | 9.6        | 9.5         | 96        | 95         | 70-130       | 1   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 10         | 8.9        | 9.4         | 89        | 94         | 70-130       | 6   | 40      |            |
| Naphthalene               | ug/L  | 10         | 7.0        | 8.1         | 70        | 81         | 70-130       | 14  | 40      |            |
| Toluene                   | ug/L  | 10         | 9.4        | 9.1         | 94        | 91         | 70-130       | 4   | 40      |            |
| Xylene (Total)            | ug/L  | 30         | 26.8       | 26.8        | 89        | 89         | 70-130       | 0   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            |             | 108       | 103        | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |            |            |             | 99        | 98         | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |            |            |             | 99        | 99         | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project: 378 Truck Stop 07960/56413  
 Pace Project No.: 92389337

|                        |  |                      |                       |
|------------------------|--|----------------------|-----------------------|
| QC Batch               | 416268   | Analysis Method      | EPA 8260              |
| QC Batch Method        | EPA 8260   | Analysis Description | 8260 MSV Low Level SC |
| Associated Lab Samples | 92389337001, 92389337002, 92389337003, 92389337004, 92389337005, 92389337019, 92389337020, 92389337021 |                      |                       |

METHOD BLANK: 2308301 Matrix: Water  
 Associated Lab Samples: 92389337001, 92389337002, 92389337003, 92389337004, 92389337005, 92389337019, 92389337020, 92389337021

| Parameter                 | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 50.0  | 06/22/18 04:55 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.12  | 06/22/18 04:55 |            |
| Ethanol                   | ug/L  | ND           | 200             | 131   | 06/22/18 04:55 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 0.070 | 06/22/18 04:55 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 50.0  | 06/22/18 04:55 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 0.10  | 06/22/18 04:55 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 3.6   | 06/22/18 04:55 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 1.9   | 06/22/18 04:55 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 103          | 70-130          |       | 06/22/18 04:55 |            |
| 4-Bromofluorobenzene (S)  | %     | 100          | 70-130          |       | 06/22/18 04:55 |            |
| Toluene-d8 (S)            | %     | 102          | 70-130          |       | 06/22/18 04:55 |            |

LABORATORY CONTROL SAMPLE 2308302

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000       | 917        | 92        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50         | 48.4       | 97        | 70-130       |            |
| Ethanol                   | ug/L  | 2000       | 2020       | 101       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100        | 90.1       | 90        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000       | 958        | 96        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100        | 92.1       | 92        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500        | 484        | 97        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400        | 381        | 95        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 98        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 102       | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 99        | 70-130       |            |

MATRIX SPIKE SAMPLE 2308304

| Parameter              | Units | 92389337002 Result | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|------------|-----------|----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol | ug/L  | ND                 | 400        | 340       | 85       | 70-130       |            |
| Diisopropyl ether      | ug/L  | 0.37J              | 20         | 21.2      | 104      | 70-130       |            |
| Ethanol                | ug/L  | ND                 | 800        | 878       | 110      | 70-130       |            |
| Ethyl-tert-butyl ether | ug/L  | ND                 | 40         | 38.5      | 96       | 70-130       |            |
| tert-Amyl Alcohol      | ug/L  | 180                | 400        | 573       | 98       | 70-130       |            |
| tert-Amylmethyl ether  | ug/L  | ND                 | 40         | 38.8      | 97       | 70-130       |            |
| tert-Butyl Alcohol     | ug/L  | 36.5J              | 200        | 323       | 143      | 70-130 M1    |            |

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**QUALITY CONTROL DATA**

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| MATRIX SPIKE SAMPLE. 2308304 |       | 92389337002 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc  | Result | % Rec | Limits | Qualifiers |
| tert-Butyl Formate           | ug/L  | ND          | 160   | 4 8J   | 3     | 70-130 | P5         |
| 1,2-Dichloroethane-d4 (S)    | %     |             |       |        | 99    | 70-130 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 98    | 70-130 |            |
| Toluene-d8 (S)               | %     |             |       |        | 101   | 70-130 |            |

| SAMPLE DUPLICATE 2308303  |       | 92389337001 | Dup    | RPD | Max |            |
|---------------------------|-------|-------------|--------|-----|-----|------------|
| Parameter                 | Units | Result      | Result | RPD | RPD | Qualifiers |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND     |     | 30  |            |
| Diisopropyl ether         | ug/L  | 0 34J       | 0 32J  |     | 30  |            |
| Ethanol                   | ug/L  | ND          | ND     |     | 30  |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND     |     | 30  |            |
| tert-Amyl Alcohol         | ug/L  | 181         | 165    | 9   | 30  |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND     |     | 30  |            |
| tert-Butyl Alcohol        | ug/L  | 37 1J       | 35 6J  |     | 30  |            |
| tert-Butyl Formate        | ug/L  | ND          | ND     |     | 30  |            |
| 1,2-Dichloroethane-d4 (S) | %     | 104         | 105    | 1   |     |            |
| 4-Bromofluorobenzene (S)  | %     | 99          | 98     | 1   |     |            |
| Toluene-d8 (S)            | %     | 101         | 102    | 1   |     |            |

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**QUALITY CONTROL DATA**

Project: 378 Truck Stop 07960/56413  
 Pace Project No 92389337

|                        |   |                      |                       |
|------------------------|---|----------------------|-----------------------|
| QC Batch               | 416273  | Analysis Method.     | EPA 8260              |
| QC Batch Method.       | EPA 8260  | Analysis Description | 8260 MSV Low Level SC |
| Associated Lab Samples | 92389337006, 92389337007, 92389337008, 92389337009, 92389337010, 92389337011, 92389337012, 92389337013, 92389337014, 92389337015, 92389337016, 92389337017, 92389337018 |                      |                       |

|                        |   |        |       |
|------------------------|---|--------|-------|
| METHOD BLANK           | 2308322   | Matrix | Water |
| Associated Lab Samples | 92389337006, 92389337007, 92389337008, 92389337009, 92389337010, 92389337011, 92389337012, 92389337013, 92389337014, 92389337015, 92389337016, 92389337017, 92389337018 |        |       |

| Parameter                 | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 50.0  | 06/22/18 10:18 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.12  | 06/22/18 10:18 |            |
| Ethanol                   | ug/L  | ND           | 200             | 131   | 06/22/18 10:18 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 0.070 | 06/22/18 10:18 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 50.0  | 06/22/18 10:18 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 0.10  | 06/22/18 10:18 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 3.6   | 06/22/18 10:18 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 1.9   | 06/22/18 10:18 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 101          | 70-130          |       | 06/22/18 10:18 |            |
| 4-Bromofluorobenzene (S)  | %     | 106          | 70-130          |       | 06/22/18 10:18 |            |
| Toluene-d8 (S)            | %     | 108          | 70-130          |       | 06/22/18 10:18 |            |

LABORATORY CONTROL SAMPLE 2308323

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000       | 911        | 91        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50         | 53.8       | 108       | 70-130       |            |
| Ethanol                   | ug/L  | 2000       | 1960       | 98        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100        | 103        | 103       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000       | 902        | 90        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100        | 99.4       | 99        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500        | 467        | 93        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400        | 436        | 109       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 91        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 100       | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 96        | 70-130       |            |

MATRIX SPIKE SAMPLE 2308325

| Parameter              | Units | 92389337007 Result | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|------------|-----------|----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol | ug/L  | ND                 | 400        | 345       | 86       | 70-130       |            |
| Diisopropyl ether      | ug/L  | ND                 | 20         | 20.8      | 104      | 70-130       |            |
| Ethanol                | ug/L  | ND                 | 800        | 883       | 110      | 70-130       |            |
| Ethyl-tert-butyl ether | ug/L  | ND                 | 40         | 39.1      | 98       | 70-130       |            |
| tert-Amyl Alcohol      | ug/L  | ND                 | 400        | 355       | 89       | 70-130       |            |
| tert-Amylmethyl ether  | ug/L  | ND                 | 40         | 40.3      | 101      | 70-130       |            |
| tert-Butyl Alcohol     | ug/L  | ND                 | 200        | 240       | 120      | 70-130       |            |

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**QUALITY CONTROL DATA**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

| MATRIX SPIKE SAMPLE       |       | 2308325               |                |              |             |                 |            |  |
|---------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|--|
| Parameter                 | Units | 92389337007<br>Result | Spike<br>Conc. | MS<br>Result | MS<br>% Rec | % Rec<br>Limits | Qualifiers |  |
| tert-Butyl Formate        | ug/L  | ND                    | 160            | 34 4J        | 22          | 70-130          | P5         |  |
| 1,2-Dichloroethane-d4 (S) | %     |                       |                |              | 96          | 70-130          |            |  |
| 4-Bromofluorobenzene (S)  | %     |                       |                |              | 98          | 70-130          |            |  |
| Toluene-d8 (S)            | %     |                       |                |              | 99          | 70-130          |            |  |

| SAMPLE DUPLICATE          |       | 2308324               |               |     |            |            |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Parameter                 | Units | 92389337006<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND                    | ND            |     | 30         |            |
| Diisopropyl ether         | ug/L  | ND                    | ND            |     | 30         |            |
| Ethanol                   | ug/L  | ND                    | ND            |     | 30         |            |
| Ethyl-tert-butyl ether    | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Amyl Alcohol         | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Amylmethyl ether     | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Butyl Alcohol        | ug/L  | ND                    | ND            |     | 30         |            |
| tert-Butyl Formate        | ug/L  | ND                    | ND            |     | 30         |            |
| 1,2-Dichloroethane-d4 (S) | %     | 105                   | 100           | 5   |            |            |
| 4-Bromofluorobenzene (S)  | %     | 108                   | 101           | 6   |            |            |
| Toluene-d8 (S)            | %     | 105                   | 106           | 1   |            |            |

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**QUALITY CONTROL DATA**

Project 378 Truck Stop 07960/56413  
 Pace Project No 92389337

QC Batch 416258 Analysis Method: EPA 504 1  
 QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
 Associated Lab Samples 92389337001, 92389337002, 92389337003, 92389337004, 92389337005, 92389337006, 92389337007,  
 92389337008, 92389337009, 92389337010

METHOD BLANK 2308232 Matrix: Water  
 Associated Lab Samples 92389337001, 92389337002, 92389337003, 92389337004, 92389337005, 92389337006, 92389337007,  
 92389337008, 92389337009, 92389337010

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.019           | 0.019 | 06/22/18 11 04 |            |
| 1-Chloro-2-bromopropane (S) | %     | 120          | 70-130          |       | 06/22/18 11 04 |            |

LABORATORY CONTROL SAMPLE & LCSD 2308233

2308234

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 25         | 0.24       | 0.25        | 96        | 98         | 70-130       | 3   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 100       | 105        | 70-130       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2308235

2308236

| Parameter                   | Units | 92389337003 Result | MS Spike Conc | MSD Spike Conc | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|---------------|----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 24            | 24             | 0.24      | 0.25       | 101      | 103       | 65-135       | 2   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |               |                |           |            | 104      | 104       | 70-130       |     |         |      |

SAMPLE DUPLICATE 2308237

| Parameter                   | Units | 92389337007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 99                 | 93         | 6   |         |            |

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### QUALITY CONTROL DATA

Project 378 Truck Stop 07960/56413  
 Pace Project No: 92389337

|                         |   |                       |                  |
|-------------------------|---|-----------------------|------------------|
| QC Batch.               | 416975  | Analysis Method.      | EPA 504 1        |
| QC Batch Method         | EPA 504 1   | Analysis Description. | GCS 504 EDB DBCP |
| Associated Lab Samples: | 92389337012, 92389337013, 92389337014, 92389337015, 92389337016, 92389337017, 92389337018, 92389337019, 92389337020 |                       |                  |

METHOD BLANK 2312134 Matrx: Water  
 Associated Lab Samples: 92389337012, 92389337013, 92389337014, 92389337015, 92389337016, 92389337017, 92389337018, 92389337019, 92389337020

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 06/28/18 15:46 |            |
| 1-Chloro-2-bromopropane (S) | %     | 125          | 70-130          |       | 06/28/18 15:46 |            |

LABORATORY CONTROL SAMPLE & LCSD 2312135 2312136

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .25        | 0.26       | 0.28        | 103       | 112        | 70-130       | 7   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 98        | 110        | 70-130       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2312137 2312138

| Parameter                   | Units | 92389337012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | .25            | .25             | 0.23      | 0.24       | 94       | 96        | 65-135       | 2   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 98       | 98        | 70-130       |     |         |      |

SAMPLE DUPLICATE 2312139

| Parameter                   | Units | 92389337015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 100                | 107        | 5   |         |            |

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## QUALIFIERS

Project 378 Truck Stop 07960/56413  
Pace Project No.. 92389337

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
MDL - Adjusted Method Detection Limit  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270 The result for each analyte is a combined concentration  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes  
TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter)  
M1 Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes  
S3 Surrogate recovery exceeded laboratory control limits Analyte presence below reporting limits in associated sample

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project 378 Truck Stop 07960/56413  
 Pace Project No.. 92389337

| Lab ID      | Sample ID              | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------------|-----------------|----------|-------------------|------------------|
| 92389337001 | 07960 WSW-1 PREGAC     | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337002 | 07960 WSW-1 PREGAC DUP | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337003 | 07960 WSW-1 POSTGAC    | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337004 | 07960 WSW-8 PREGAC     | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337005 | 07960 WSW-8 POSTGAC    | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337006 | 07960 WSW-2            | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337007 | 07960 WSW-4            | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337008 | 07960 WSW-5            | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337009 | 07960 WSW-6            | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337010 | 07960 FIELD BLANK      | EPA 504 1       | 416258   | EPA 504 1         | 416274           |
| 92389337012 | 07960 WSW-7            | EPA 504 1       | 416975   | EPA 504 1         | 417063           |
| 92389337013 | 07960 WSW-9            | EPA 504 1       | 416975   | EPA 504 1         | 417063           |
| 92389337014 | 07960 WSW-10           | EPA 504 1       | 416975   | EPA 504 1         | 417063           |
| 92389337015 | 07960 WSW-11           | EPA 504.1       | 416975   | EPA 504 1         | 417063           |
| 92389337016 | 07960 WSW-12           | EPA 504.1       | 416975   | EPA 504 1         | 417063           |
| 92389337017 | 07960 WSW-13           | EPA 504.1       | 416975   | EPA 504 1         | 417063           |
| 92389337018 | 07960 WSW-14           | EPA 504 1       | 416975   | EPA 504 1         | 417063           |
| 92389337019 | 07960 WSW-15           | EPA 504 1       | 416975   | EPA 504 1         | 417063           |
| 92389337020 | 07960 FIELD BLANK 2    | EPA 504 1       | 416975   | EPA 504 1         | 417063           |
| 92389337001 | 07960 WSW-1 PREGAC     | EPA 524 2       | 456393   |                   |                  |
| 92389337002 | 07960 WSW-1 PREGAC DUP | EPA 524 2       | 456393   |                   |                  |
| 92389337003 | 07960 WSW-1 POSTGAC    | EPA 524 2       | 456393   |                   |                  |
| 92389337004 | 07960 WSW-8 PREGAC     | EPA 524 2       | 456393   |                   |                  |
| 92389337005 | 07960 WSW-8 POSTGAC    | EPA 524 2       | 456393   |                   |                  |
| 92389337006 | 07960 WSW-2            | EPA-524.2       | 456393   |                   |                  |
| 92389337007 | 07960 WSW-4            | EPA 524 2       | 456393   |                   |                  |
| 92389337008 | 07960 WSW-5            | EPA 524 2       | 456393   |                   |                  |
| 92389337009 | 07960 WSW-6            | EPA 524 2       | 456393   |                   |                  |
| 92389337010 | 07960 FIELD BLANK      | EPA 524 2       | 456393   |                   |                  |
| 92389337011 | 07960 TRIP BLANK       | EPA 524 2       | 456605   |                   |                  |
| 92389337012 | 07960 WSW-7            | EPA 524 2       | 456393   |                   |                  |
| 92389337013 | 07960 WSW-9            | EPA 524 2       | 456393   |                   |                  |
| 92389337014 | 07960 WSW-10           | EPA 524.2       | 456393   |                   |                  |
| 92389337015 | 07960 WSW-11           | EPA 524 2       | 456393   |                   |                  |
| 92389337016 | 07960 WSW-12           | EPA 524.2       | 456393   |                   |                  |
| 92389337017 | 07960 WSW-13           | EPA 524.2       | 456393   |                   |                  |
| 92389337018 | 07960 WSW-14           | EPA 524.2       | 456393   |                   |                  |
| 92389337019 | 07960 WSW-15           | EPA 524.2       | 456393   |                   |                  |
| 92389337020 | 07960 FIELD BLANK 2    | EPA 524.2       | 456605   |                   |                  |
| 92389337021 | 07960 TRIP BLANK 2     | EPA 524.2       | 456381   |                   |                  |
| 92389337001 | 07960 WSW-1 PREGAC     | EPA 8260        | 416268   |                   |                  |
| 92389337002 | 07960 WSW-1 PREGAC DUP | EPA 8260        | 416268   |                   |                  |
| 92389337003 | 07960 WSW-1 POSTGAC    | EPA 8260        | 416268   |                   |                  |
| 92389337004 | 07960 WSW-8 PREGAC     | EPA 8260        | 416268   |                   |                  |
| 92389337005 | 07960 WSW-8 POSTGAC    | EPA 8260        | 416268   |                   |                  |

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project 378 Truck Stop 07960/56413  
 Pace Project No . 92389337

| Lab ID      | Sample ID           | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|----------|-------------------|------------------|
| 92389337006 | 07960 WSW-2         | EPA 8260        | 416273   |                   |                  |
| 92389337007 | 07960 WSW-4         | EPA 8260        | 416273   |                   |                  |
| 92389337008 | 07960 WSW-5         | EPA 8260        | 416273   |                   |                  |
| 92389337009 | 07960 WSW-6         | EPA 8260        | 416273   |                   |                  |
| 92389337010 | 07960 FIELD BLANK   | EPA 8260        | 416273   |                   |                  |
| 92389337011 | 07960 TRIP BLANK    | EPA 8260        | 416273   |                   |                  |
| 92389337012 | 07960 WSW-7         | EPA 8260        | 416273   |                   |                  |
| 92389337013 | 07960 WSW-9         | EPA 8260        | 416273   |                   |                  |
| 92389337014 | 07960 WSW-10        | EPA 8260        | 416273   |                   |                  |
| 92389337015 | 07960 WSW-11        | EPA 8260        | 416273   |                   |                  |
| 92389337016 | 07960 WSW-12        | EPA 8260        | 416273   |                   |                  |
| 92389337017 | 07960 WSW-13        | EPA 8260        | 416273   |                   |                  |
| 92389337018 | 07960 WSW-14        | EPA 8260        | 416273   |                   |                  |
| 92389337019 | 07960 WSW-15        | EPA 8260        | 416268   |                   |                  |
| 92389337020 | 07960 FIELD BLANK 2 | EPA 8260        | 416268   |                   |                  |
| 92389337021 | 07960 TRIP BLANK 2  | EPA 8260        | 416268   |                   |                  |

**REPORT OF LABORATORY ANALYSIS**

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|   |  |   |
|---|--|---|
|  | Document Name:<br>Sample Condition Upon Receipt (SCUR) | Document Revised: February 7, 2018<br>Page 1 of 2   |
|   | Document No.:<br>F-CAR-CS-033-Rev.06                   | Issuing Authority:<br>Pace Carolinas Quality Office |

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: SC DHEC

Project #:

WO#: **92389337**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: MG 6-21-18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 92T040 Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 1.57.0 Correction Factor: Add/Subtract (°C) +0.4

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 1.97.4

Samples out of temp criteria. Samples on Ice, cooling process has begun

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

|  | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                   | 1.                    |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A           | 2.                    |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A         | 3.                    |
| Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 4.                    |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                          | 5.                    |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                    | 6.                    |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                      |                       |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                          | 7.                    |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8.                    |
| Sample Labels Match CDC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                    | 9.                    |
| -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>  |                       |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 10.                   |
| Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                         | 11.                   |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A           |                       |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: TC

Date: 6/21/18

Project Manager SRF Review: TC

Date: 6/21/18



Document Name:  
Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018  
Page 1 of 2

Document No.:  
F-CAR-CS-033-Rev.06

Issuing Authority:  
Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

WO#: 92389337

PH: RWC

Due Date: 06/22/18

CLIENT: 92-SCDHEC

P1

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (C-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 [pH < 2] (C-) | BP3M-250 mL plastic HNO3 [pH < 2] | BP4Z-125 mL Plastic 2N Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH [pH > 12] (C-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (C-) | AG1H-1 liter Amber HCl [pH < 2] | AG3U-250 mL Amber Unpreserved (N/A) (C-) | AG1S-1 liter Amber H2SO4 [pH < 2] | AG3S-250 mL Amber H2SO4 [pH < 2] | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG9U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |  |  |
|-------|--|---------------------------------------|---------------------------------------|--|---|-----------------------------------|--|---|---|---|---------------------------------|--|-----------------------------------|----------------------------------|---|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 2     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 3     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 4     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 5     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 6     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 7     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 8     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 9     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 10    |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 11    |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 2                        |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 12    |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |

**pH Adjustment Log for Preserved Samples**

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



Document Name:  
Sample Condition Upon Receipt(SCUR)

Document No.:  
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018  
Page 1 of 2

Issuing Authority:  
Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

WO#: 92389337

PM: RMC

Due Date: 06/22/18

CLIENT: 92-SC0HEC

P2

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (C-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (C-) | BP3M-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH (pH > 12) (C-) | WG7U-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (C-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (C-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5095 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG9U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |  |  |
|-------|--|---------------------------------------|---------------------------------------|--|---|-----------------------------------|--|---|---|---|---------------------------------|--|-----------------------------------|----------------------------------|---|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 2     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 3     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 4     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 5     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 6     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 7     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 8     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 9     | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 3                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 10    | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       | 4                        |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 11    | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 12    | /  | /                                     | /                                     | /                                      | /                                       | /                                 | /  | /                                       | /                                       | /   | /                               | /  | /                                 | /                                | /                                       |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



Document Name:  
Sample Condition Upon Receipt Form  
Document No.:  
F-FL-C-007 rev. 13

Document Revised:  
May 30, 2018  
Issuing Authority:  
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

**Project #**  
**Project Manager:**  
**Client:**

**Date and Initials of person:**  
**Examining contents:** \_\_\_\_\_  
**Label:** \_\_\_\_\_  
**Deliver:** \_\_\_\_\_  
**pH:** \_\_\_\_\_

Thermometer Used: T314 Date: 6/21/18 Time: 1040 Initials: RS

State of Origin: \_\_\_\_\_  For WV projects, all containers verified to 68 °C

|  |  |
|--|--|
| Cooler #1 Temp. °C <u>3.8</u> (Visual) <u>+0.1</u> (Correction Factor) <u>3.9</u> (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #2 Temp. °C <u>3.1</u> (Visual) <u>+0.1</u> (Correction Factor) <u>3.2</u> (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)                 | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)                 | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)                 | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)                 | <input type="checkbox"/> Samples on ice, cooling process has begun |

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other \_\_\_\_\_

Shipping Method:  First Overnight  Priority Overnight  Standard Overnight  Ground  International Priority

Other \_\_\_\_\_

Billing:  Recipient  Sender  Third Party  Credit Card  Unknown

Tracking # 8001 2603 0214 / 7815 1510 0214

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No Ice: Wet Blue Dry None

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Samples shorted to lab (if Yes, complete) Shorted Date: \_\_\_\_\_ Shorted Time: \_\_\_\_\_ Qty: \_\_\_\_\_

Comments:

|   |  |  |
|---|--|--|
| Chain of Custody Present  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Chain of Custody Filled Out   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Relinquished Signature & Sampler Name COC   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Samples Arrived within Hold Time  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Rush TAT requested on COC   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <u>24 HOUR</u>   |
| Sufficient Volume   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Correct Containers Used   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Containers Intact   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Sample Labels match COC (sample IDs & date/time of collection)  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| All containers needing acid/base preservation have been checked.  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | Preservation Information:<br>Preservative: _____<br>Lot #/Trace #: _____<br>Date: _____ Time: _____<br>Initials: _____ |
| All Containers needing preservation are found to be in compliance with EPA recommendation:<br>Exceptions: VOA, Coliform, TOC, O&G, Carbamates | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Headspace in VOA Vials? (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |
| Trip Blank Present:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  |

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution (use back for additional comments): \_\_\_\_\_

Project Manager Review: \_\_\_\_\_





### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|  |  |   |  |                                   |  |  |  |
|--|--|---|--|-----------------------------------|--|--|--|
| Section A<br>Required Client Information:              |  | Section B<br>Required Project Information:        |  | Section C<br>Invoice Information: |  | Page: 1 of 1   |  |
| Company: <b>SCDHEC</b>                                 |  | Report To: <b>A. Thrash</b>                       |  | Attention:                        |  | 2192466  |  |
| Address: <b>2600 Bull Street<br/>Columbia SC 29151</b> |  | Copy To:  |  | Company Name:                     |  | REGULATORY AGENCY  |  |
| Email To:  |  | Purchase Order No.:                               |  | Address:                          |  | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER |  |
| Phone:   |  | Project Name: <b>378 Truck Stop</b>               |  | Pace Quote Reference:             |  | Site Location  |  |
| Fax:   |  | Project Number: <b>Site ID 07960 PAC/CA 56413</b> |  | Pace Project Manager:             |  | STATE: <b>SC</b>   |  |
| Requested Due Date: <b>24 hr Turn</b>                  |  | Pace Profile #:                                   |  | Requested Analysis Filtered (Y/N) |  |  |  |

| ITEM # | SAMPLE ID<br>(A-Z, 0-9 / .) | Matrix Codes<br>MATRIX / CODE | MATERIAL CODE<br>(see vial code to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED |      |         |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          | Analysis Test<br>Y/N | Residual Chlorine (Y/N) | Face Project No. / Lab I.D. |       |
|--------|-----------------------------|-------------------------------|--|--------------------------------|-----------|------|---------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|----------------------|-------------------------|-----------------------------|-------|
|        |                             |                               |  |                                | DATE      | TIME | DATE    | TIME |                           |                 | UNPRESERVED   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> | Methanol |                      |                         |                             | Other |
| 1      | 07960 WSW-1 Pre GAC         | WTG                           |  | G                              |           |      | 6-19-18 | 1240 | 9                         |                 | 6             | 3                              |                  |     |      |   | X        | X                    |                         | 92289737                    | 001   |
| 2      | WSW-1 Pre GAC Dup           |                               |  |                                |           |      |         | 1243 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 002   |
| 3      | WSW-1 Post GAC              |                               |  |                                |           |      |         | 1250 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 003   |
| 4      | WSW-8 Pre GAC               |                               |  |                                |           |      |         | 1120 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 004   |
| 5      | WSW-8 Post GAC              |                               |  |                                |           |      |         | 1130 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 005   |
| 6      | WSW-2                       |                               |  |                                |           |      |         | 1420 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 006   |
| 7      | WSW-4                       |                               |  |                                |           |      |         | 1450 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 007   |
| 8      | WSW-5                       |                               |  |                                |           |      |         | 1515 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 008   |
| 9      | WSW-6                       |                               |  |                                |           |      |         | 1540 |                           |                 |               |                                |                  |     |      |   |          |                      |                         |                             | 009   |
| 10     | Field Blank                 |                               |  |                                |           |      |         | 1300 | 9                         | 6               | 3             |                                |                  |     |      |   |          |                      |                         |                             | 010   |
| 11     | 07960 Tr-p Blank            | WTG                           |  | G                              |           |      | 6-19-18 |      | 4                         | 4               |               |                                |                  |     |      |   | X        | X                    |                         |                             | 011   |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| 24 hr Turn *        | Coaly Papp                    | 6-19-18 | 1700 | James Pace                | 6-21-18 | 1442 | Y N Y             |
| WSW-1 - Scurry      |                               |         |      | James Pace                | 6-21-18 | 1442 | Y N Y             |
| WSW-8 - Gordon      | James Pace                    | 6-21-18 | 1442 | James Pace                | 6-21-18 | 1442 | Y N Y             |

ORIGINAL

|  |  |            |                       |                             |                      |
|--|--|------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE               |  | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <i>Coaly Papp</i> |  |            |                       |                             |                      |
| SIGNATURE OF SAMPLER: <i>Coaly Papp</i>  |  |            |                       |                             |                      |
| DATE Signed (MM/DD/YY): <i>6-19-18</i>   |  |            |                       |                             |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
2192491

|   |  |   |  |  |  |
|---|--|---|--|--|--|
| <b>Section A</b><br>Required Client Information:              |  | <b>Section B</b><br>Required Project Information: |  | <b>Section C</b><br>Invoice Information:   |  |
| Company: <u>SCDHEC</u>  |  | Report To: <u>A. Thrash</u>                       |  | Attention:   |  |
| Address: <u>2600 Bull Street</u><br><u>Columbia, SC 29151</u> |  | Copy To:  |  | Company Name:  |  |
| Email To:   |  | Purchase Order No.:                               |  | Address:   |  |
| Phone:      Fax:  |  | Project Name: <u>378 Truck Stop</u>               |  | Pace Quote Reference:  |  |
| Requested Due Date/TAT: <u>*74 hr. turn</u>                   |  | Project Number: <u>SHC ID 07960 PALE45WB</u>      |  | Pace Project Manager:  |  |
|   |  |   |  | Pace Profile #:  |  |
|   |  |   |  | <b>REGULATORY AGENCY</b>   |  |
|   |  |   |  | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ |  |
|   |  |   |  | Site Location  |  |
|   |  |   |  | STATE: <u>SC</u>   |  |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | COLLECTED       |         |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          | Analysis Test ↓ | Y/N ↓ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |       |
|--------|--|-------------------------------|-----------------|---------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-----------------|-------|-----------------------------------|-------------------------|----------------------------|-------|
|        |  |                               | COMPOSITE START |         | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | Methanol |                 |       |                                   |                         |                            | Other |
|        |  |                               | DATE            | TIME    | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |          |                 |       |                                   |                         |                            |       |
| 1      | 07960 WSW-7                              | WT 6                          |                 | 6-20-18 | 1040               | 9    |                           |                 |               |                                |                  |     |      |   |          |                 |       | 012                               |                         |                            |       |
| 2      | WSW-9                                    |                               |                 |         | 1100               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 013                               |                         |                            |       |
| 3      | WSW-10                                   |                               |                 |         | 1245               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 014                               |                         |                            |       |
| 4      | WSW-11                                   |                               |                 |         | 1230               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 015                               |                         |                            |       |
| 5      | WSW-12                                   |                               |                 |         | 1210               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 016                               |                         |                            |       |
| 6      | WSW-13                                   |                               |                 |         | 1200               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 017                               |                         |                            |       |
| 7      | WSW-14                                   |                               |                 |         | 1140               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 018                               |                         |                            |       |
| 8      | WSW-15                                   |                               |                 |         | 1120               |      |                           |                 |               |                                |                  |     |      |   |          |                 |       | 019                               |                         |                            |       |
| 9      | Field Blank 2                            |                               |                 |         | 1300               | 9    |                           |                 |               |                                |                  |     |      |   |          |                 |       | 020                               |                         |                            |       |
| 10     | 07960 Trip Blank 2                       | WT 6                          |                 | 6-20-18 | —                  | 4    |                           |                 |               |                                |                  |     |      |   |          |                 |       | 021                               |                         |                            |       |
| 11     |  |                               |                 |         |                    |      |                           |                 |               |                                |                  |     |      |   |          |                 |       |                                   |                         |                            |       |
| 12     |  |                               |                 |         |                    |      |                           |                 |               |                                |                  |     |      |   |          |                 |       |                                   |                         |                            |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| 74 hr. turn*        | Lady Papp                     | 6-20-18 | 1630 | [Signature]               | 6-20-18 | 1430 |                   |
|                     | J. Papp                       | 6-20-18 | 1430 | [Signature]               | 6-20-18 | 1430 | Y U Y             |

ORIGINAL

|  |  |
|--|--|
| <b>SAMPLER NAME AND SIGNATURE</b>        |  |
| PRINT Name of SAMPLER: <u>Lady Papp</u>  | DATE Signed (MM/DD/YY): <u>6-20-18</u> |
| SIGNATURE of SAMPLER: <u>[Signature]</u> |  |

|            |                       |                     |                      |
|------------|-----------------------|---------------------|----------------------|
| Temp in °C | Received on Ice (Y/N) | Cooler Stored (Y/N) | Samples Intact (Y/N) |
| 24         | Y                     | U                   | Y                    |

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June 21, 2018



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Hwy 378 Truck WSW 07960/57353  
Pace Project No.: 92388726

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: Hwy 378 Truck WSW 07960/57353  
Pace Project No: 92388726

---

### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Delaware Certification FL NELAC Reciprocity  
Florida Certification # E83079  
Georgia Certification #: 955  
Guam Certification FL NELAC Reciprocity  
Hawaii Certification FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification # 90050  
Louisiana Certification # FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification #346  
Michigan Certification # 9911  
Mississippi Certification FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification # Cert 0074  
Nebraska Certification: NE-OS-28-14

Nevada Certification FL NELAC Reciprocity  
New Hampshire Certification # 2958  
New Jersey Certification # FL022  
New York Certification # 11608  
North Carolina Environmental Certificate # 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification #96042001  
Tennessee Certification # TN02974  
Texas Certification FL NELAC Reciprocity  
US Virgin Islands Certification FL NELAC Reciprocity  
Virginia Environmental Certification # 460165  
Wyoming Certification FL NELAC Reciprocity  
West Virginia Certification # 9962C  
Wisconsin Certification # 399079670  
Wyoming (EPA Region 8) FL NELAC Reciprocity

### Charlotte Certification IDs

9800 Kinsey Ave Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification # 37706  
North Carolina Field Services Certification # 5342  
North Carolina Wastewater Certification # 12

South Carolina Certification # 99006001  
Florida/NELAP Certification # E87627  
Kentucky UST Certification # 84  
Virginia/VELAP Certification # 460221

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### SAMPLE SUMMARY

Project Hwy 378 Truck WSW 07960/57353  
Pace Project No.. 92388726

| Lab ID      | Sample ID    | Matrix | Date Collected | Date Received  |
|-------------|--------------|--------|----------------|----------------|
| 92388726001 | WSW-3        | Water  | 06/15/18 12:30 | 06/18/18 09:17 |
| 92388726002 | DUPLICATE    | Water  | 06/15/18 12:35 | 06/18/18 09:17 |
| 92388726003 | FIELD BLANK  | Water  | 06/15/18 12:50 | 06/18/18 09:17 |
| 92388726004 | TRIP BLANK 1 | Water  | 06/15/18 00:00 | 06/18/18 09:17 |
| 92388726005 | TRIP BLANK 2 | Water  | 06/15/18 00:00 | 06/18/18 09:17 |

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**SAMPLE ANALYTE COUNT**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

| Lab ID      | Sample ID    | Method    | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|-----------|----------|-------------------|------------|
| 92388726001 | WSW-3        | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |              | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |              | EPA 8260  | GAW      | 11                | PASI-C     |
| 92388726002 | DUPLICATE    | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |              | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |              | EPA 8260  | GAW      | 11                | PASI-C     |
| 92388726003 | FIELD BLANK  | EPA 504 1 | SEM      | 2                 | PASI-C     |
|             |              | EPA 524 2 | JLR      | 10                | PASI-O     |
|             |              | EPA 8260  | GAW      | 11                | PASI-C     |
| 92388726004 | TRIP BLANK 1 | EPA 524.2 | JLR      | 10                | PASI-O     |
| 92388726005 | TRIP BLANK 2 | EPA 8260  | GAW      | 11                | PASI-C     |

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### ANALYTICAL RESULTS

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No.: 92388726

| Sample: WSW-3                |         | Lab ID: 92388726001         |              | Collected                    | 06/15/18 12:30 | Received       | 06/18/18 09 17 | Matrix Water |      |  |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----------------|----------------|----------------|--------------|------|--|
| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF             | Prepared       | Analyzed       | CAS No       | Qual |  |
| <b>504 GCS EDB and DBCP</b>  |         | Analytical Method EPA 504.1 |              | Preparation Method EPA 504 1 |                |                |                |              |      |  |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0 020        | 0 020                        | 1              | 06/18/18 13:20 | 06/18/18 19:00 | 106-93-4     |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                |                |                |              |      |  |
| 1-Chloro-2-bromopropane (S)  | 109     | %                           | 70-130       |                              | 1              | 06/18/18 13:20 | 06/18/18 19:00 | 301-79-56    |      |  |
| <b>524.2 MSV</b>             |         | Analytical Method EPA 524.2 |              |                              |                |                |                |              |      |  |
| Benzene                      | ND      | ug/L                        | 0 50         | 0 25                         | 1              |                | 06/20/18 17 09 | 71-43-2      |      |  |
| 1,2-Dichloroethane           | ND      | ug/L                        | 0 50         | 0 25                         | 1              |                | 06/20/18 17 09 | 107-06-2     |      |  |
| Ethylbenzene                 | ND      | ug/L                        | 0 50         | 0 25                         | 1              |                | 06/20/18 17 09 | 100-41-4     |      |  |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 0 50         | 0.25                         | 1              |                | 06/20/18 17 09 | 1634-04-4    |      |  |
| Naphthalene                  | ND      | ug/L                        | 0 50         | 0 25                         | 1              |                | 06/20/18 17 09 | 91-20-3      |      |  |
| Toluene                      | ND      | ug/L                        | 0 50         | 0 25                         | 1              |                | 06/20/18 17 09 | 108-88-3     |      |  |
| Xylene (Total)               | ND      | ug/L                        | 0 50         | 0 25                         | 1              |                | 06/20/18 17 09 | 1330-20-7    |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                |                |                |              |      |  |
| 4-Bromofluorobenzene (S)     | 96      | %                           | 70-130       |                              | 1              |                | 06/20/18 17 09 | 460-00-4     | HS   |  |
| Toluene-d8 (S)               | 107     | %                           | 70-130       |                              | 1              |                | 06/20/18 17 09 | 2037-26-5    |      |  |
| 1,2-Dichloroethane-d4 (S)    | 100     | %                           | 70-130       |                              | 1              |                | 06/20/18 17 09 | 17060-07-0   |      |  |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method EPA 8260  |              |                              |                |                |                |              |      |  |
| tert-Amyl Alcohol            | ND      | ug/L                        | 100          | 50 0                         | 1              |                | 06/18/18 15 55 | 75-85-4      |      |  |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10 0         | 0 10                         | 1              |                | 06/18/18 15 55 | 994-05-8     |      |  |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 50 0                         | 1              |                | 06/18/18 15 55 | 624-95-3     |      |  |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 3 6                          | 1              |                | 06/18/18 15 55 | 75-65-0      |      |  |
| tert-Butyl Formate           | ND      | ug/L                        | 50 0         | 1 9                          | 1              |                | 06/18/18 15 55 | 762-75-4     |      |  |
| Diisopropyl ether            | ND      | ug/L                        | 1 0          | 0 12                         | 1              |                | 06/18/18 15 55 | 108-20-3     |      |  |
| Ethanol                      | ND      | ug/L                        | 200          | 131                          | 1              |                | 06/18/18 15 55 | 64-17-5      |      |  |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10 0         | 0.070                        | 1              |                | 06/18/18 15 55 | 637-92-3     |      |  |
| <b>Surrogates</b>            |         |                             |              |                              |                |                |                |              |      |  |
| 4-Bromofluorobenzene (S)     | 99      | %                           | 70-130       |                              | 1              |                | 06/18/18 15 55 | 460-00-4     |      |  |
| 1,2-Dichloroethane-d4 (S)    | 106     | %                           | 70-130       |                              | 1              |                | 06/18/18 15 55 | 17060-07-0   |      |  |
| Toluene-d8 (S)               | 102     | %                           | 70-130       |                              | 1              |                | 06/18/18 15 55 | 2037-26-5    |      |  |

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

| Sample: DUPLICATE  |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Lab ID: 92388726002 Collected 06/15/18 12 35 Received 06/18/18 09:17 Matrix: Water |         |       |              |       |    |                |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 504 1 Preparation Method EPA 504 1                           |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0.020 | 1  | 06/18/18 13 20 | 06/18/18 20.05 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 99      | %     | 70-130       |       | 1  | 06/18/18 13 20 | 06/18/18 20 05 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/20/18 17 33 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/20/18 17 33 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/20/18 17 33 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/20/18 17 33 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/20/18 17 33 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 06/20/18 17 33 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 06/20/18 17 33 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 96      | %     | 70-130       |       | 1  |                | 06/20/18 17 33 | 460-00-4   |      |
| Toluene-d8 (S)   | 104     | %     | 70-130       |       | 1  |                | 06/20/18 17:33 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 101     | %     | 70-130       |       | 1  |                | 06/20/18 17 33 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 8260  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/18/18 16 12 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 0 10  | 1  |                | 06/18/18 16 12 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/18/18 16:12 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3 6   | 1  |                | 06/18/18 16:12 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 06/18/18 16 12 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0 12  | 1  |                | 06/18/18 16 12 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/18/18 16 12 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 0 070 | 1  |                | 06/18/18 16 12 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 1  |                | 06/18/18 16.12 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 105     | %     | 70-130       |       | 1  |                | 06/18/18 16:12 | 17060-07-0 |      |
| Toluene-d8 (S)   | 104     | %     | 70-130       |       | 1  |                | 06/18/18 16 12 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

| Sample: FIELD BLANK  |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Lab ID: 92388726003 Collected 06/15/18 12 50 Received: 06/18/18 09 17 Matrx: Water |         |       |              |       |    |                |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 504 1 Preparation Method EPA 504 1                           |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0 020 | 1  | 06/18/18 13 20 | 06/18/18 20:27 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 109     | %     | 70-130       |       | 1  | 06/18/18 13 20 | 06/18/18 20:27 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/20/18 17.57 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/20/18 17.57 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 06/20/18 17.57 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/20/18 17.57 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/20/18 17.57 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/20/18 17 57 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 06/20/18 17 57 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 97      | %     | 70-130       |       | 1  |                | 06/20/18 17 57 | 460-00-4   |      |
| Toluene-d8 (S)   | 109     | %     | 70-130       |       | 1  |                | 06/20/18 17 57 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 99      | %     | 70-130       |       | 1  |                | 06/20/18 17 57 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method EPA 8260   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/18/18 16 29 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 0.10  | 1  |                | 06/18/18 16 29 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 50 0  | 1  |                | 06/18/18 16 29 | 624-95-3   |      |
| tert-Butyl Alcohol   | 42.8J   | ug/L  | 100          | 3.6   | 1  |                | 06/18/18 16 29 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 1.9   | 1  |                | 06/18/18 16 29 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0.12  | 1  |                | 06/18/18 16 29 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 06/18/18 16 29 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10 0         | 0.070 | 1  |                | 06/18/18 16 29 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 1  |                | 06/18/18 16 29 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 106     | %     | 70-130       |       | 1  |                | 06/18/18 16.29 | 17060-07-0 |      |
| Toluene-d8 (S)   | 103     | %     | 70-130       |       | 1  |                | 06/18/18 16 29 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

| Sample: TRIP BLANK 1   |         |       |              |      |    |          |                |            |      |
|--|---------|-------|--------------|------|----|----------|----------------|------------|------|
| Lab ID: 92388726004  |         |       |              |      |    |          |                |            |      |
| Collected 06/15/18 00:00 Received 06/18/18 09:17 Matrix: Water |         |       |              |      |    |          |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL  | DF | Prepared | Analyzed       | CAS No     | Qual |
| <b>524.2 MSV</b>   |         |       |              |      |    |          |                |            |      |
| Analytical Method EPA 524.2                                    |         |       |              |      |    |          |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 06/20/18 18:22 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |      |    |          |                |            |      |
| 4-Bromofluorobenzene (S)                                       | 96      | %     | 70-130       |      | 1  |          | 06/20/18 18:22 | 460-00-4   |      |
| Toluene-d8 (S)   | 104     | %     | 70-130       |      | 1  |          | 06/20/18 18:22 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)                                      | 100     | %     | 70-130       |      | 1  |          | 06/20/18 18:22 | 17060-07-0 |      |

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**ANALYTICAL RESULTS**

Project: Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

| Sample: TRIP BLANK 2      Lab ID: 92388726005      Collected: 06/15/18 00 00      Received: 06/18/18 09 17      Matrix: Water |         |       |              |       |    |          |                |            |      |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV Low Level SC</b>  |         |       |              |       |    |          |                |            |      |
| Analytical Method: EPA 8260   |         |       |              |       |    |          |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 50.0  | 1  |          | 06/18/18 16:46 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 0.10  | 1  |          | 06/18/18 16:46 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50.0  | 1  |          | 06/18/18 16:46 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 3.6   | 1  |          | 06/18/18 16:46 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 1.9   | 1  |          | 06/18/18 16:46 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.12  | 1  |          | 06/18/18 16:46 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 131   | 1  |          | 06/18/18 16:46 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 0.070 | 1  |          | 06/18/18 16:46 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)  | 100     | %     | 70-130       |       | 1  |          | 06/18/18 16:46 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 107     | %     | 70-130       |       | 1  |          | 06/18/18 16:46 | 17060-07-0 |      |
| Toluene-d8 (S)  | 103     | %     | 70-130       |       | 1  |          | 06/18/18 16:46 | 2037-26-5  |      |

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**QUALITY CONTROL DATA**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No.. 92388726

QC Batch: 455926 Analysis Method EPA 524 2  
 QC Batch Method: EPA 524 2 Analysis Description. 524 2 MSV  
 Associated Lab Samples 92388726001, 92388726002, 92388726003, 92388726004

METHOD BLANK: 2468888 Matrix Water  
 Associated Lab Samples 92388726001, 92388726002, 92388726003, 92388726004

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 06/20/18 11 22 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 100          | 70-130          |      | 06/20/18 11 22 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 70-130          |      | 06/20/18 11 22 |            |
| Toluene-d8 (S)            | %     | 104          | 70-130          |      | 06/20/18 11 22 |            |

LABORATORY CONTROL SAMPLE & LCSD 2468889

2468890

| Parameter                 | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 10         | 8.7        | 8.6         | 87        | 86         | 70-130       | 1   | 40      |            |
| Benzene                   | ug/L  | 10         | 9.7        | 9.4         | 97        | 94         | 70-130       | 2   | 40      |            |
| Ethylbenzene              | ug/L  | 10         | 9.6        | 9.1         | 96        | 91         | 70-130       | 5   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 10         | 8.3        | 8.5         | 83        | 85         | 70-130       | 2   | 40      |            |
| Naphthalene               | ug/L  | 10         | 8.0        | 8.3         | 80        | 83         | 70-130       | 3   | 40      |            |
| Toluene                   | ug/L  | 10         | 9.6        | 9.3         | 96        | 93         | 70-130       | 3   | 40      |            |
| Xylene (Total)            | ug/L  | 30         | 24.8       | 24.6        | 83        | 82         | 70-130       | 1   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            |             | 96        | 97         | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |            |            |             | 103       | 103        | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |            |            |             | 97        | 97         | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

QC Batch 415602 Analysis Method EPA 8260  
 QC Batch Method EPA 8260 Analysis Description 8260 MSV Low Level SC  
 Associated Lab Samples 92388726001, 92388726002, 92388726003, 92388726005

METHOD BLANK 2304605 Matrix: Water  
 Associated Lab Samples 92388726001, 92388726002, 92388726003, 92388726005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 50.0  | 06/18/18 10:35 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.12  | 06/18/18 10:35 |            |
| Ethanol                   | ug/L  | ND           | 200             | 131   | 06/18/18 10:35 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 0.070 | 06/18/18 10:35 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 50.0  | 06/18/18 10:35 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 0.10  | 06/18/18 10:35 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 3.6   | 06/18/18 10:35 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 1.9   | 06/18/18 10:35 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 104          | 70-130          |       | 06/18/18 10:35 |            |
| 4-Bromofluorobenzene (S)  | %     | 101          | 70-130          |       | 06/18/18 10:35 |            |
| Toluene-d8 (S)            | %     | 105          | 70-130          |       | 06/18/18 10:35 |            |

LABORATORY CONTROL SAMPLE: 2304606

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000       | 899        | 90        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50         | 54.0       | 108       | 70-130       |            |
| Ethanol                   | ug/L  | 2000       | 1950       | 97        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100        | 97.2       | 97        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000       | 960        | 96        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100        | 94.8       | 95        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500        | 447        | 89        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400        | 365        | 91        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 102       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 96        | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 98        | 70-130       |            |

MATRIX SPIKE SAMPLE 2304608

| Parameter              | Units | 92388652004 Result | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|------------|-----------|----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol | ug/L  | ND                 | 400        | 317       | 79       | 70-130       |            |
| Diisopropyl ether      | ug/L  | ND                 | 20         | 20.9      | 104      | 70-130       |            |
| Ethanol                | ug/L  | ND                 | 800        | 826       | 103      | 70-130       |            |
| Ethyl-tert-butyl ether | ug/L  | ND                 | 40         | 39.4      | 99       | 70-130       |            |
| tert-Amyl Alcohol      | ug/L  | ND                 | 400        | 340       | 85       | 70-130       |            |
| tert-Amylmethyl ether  | ug/L  | ND                 | 40         | 37.4      | 94       | 70-130       |            |
| tert-Butyl Alcohol     | ug/L  | ND                 | 200        | 224       | 112      | 70-130       |            |
| tert-Butyl Formate     | ug/L  | ND                 | 160        | 103.3     | 6        | 70-130 P5    |            |

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**QUALITY CONTROL DATA**

Project Hwy 378 Truck WSW 07960/57353  
 Pace Project No 92388726

| MATRIX SPIKE SAMPLE       | 2304608 | 92388652004 | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|---------|-------------|-------------|-----------|----------|--------------|------------|
| Parameter                 | Units   | Result      |             |           |          |              |            |
| 1,2-Dichloroethane-d4 (S) | %       |             |             |           | 110      | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %       |             |             |           | 97       | 70-130       |            |
| Toluene-d8 (S)            | %       |             |             |           | 99       | 70-130       |            |

| SAMPLE DUPLICATE          | 2304607 | 92388652003 | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|---------|-------------|------------|-----|---------|------------|
| Parameter                 | Units   | Result      |            |     |         |            |
| 3,3-Dimethyl-1-Butanol    | ug/L    | ND          | ND         |     | 30      |            |
| Diisopropyl ether         | ug/L    | ND          | ND         |     | 30      |            |
| Ethanol                   | ug/L    | ND          | ND         |     | 30      |            |
| Ethyl-tert-butyl ether    | ug/L    | ND          | ND         |     | 30      |            |
| tert-Amyl Alcohol         | ug/L    | ND          | ND         |     | 30      |            |
| tert-Amylmethyl ether     | ug/L    | ND          | ND         |     | 30      |            |
| tert-Butyl Alcohol        | ug/L    | ND          | ND         |     | 30      |            |
| tert-Butyl Formate        | ug/L    | ND          | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %       | 106         | 106        | 0   |         |            |
| 4-Bromofluorobenzene (S)  | %       | 101         | 100        | 1   |         |            |
| Toluene-d8 (S)            | %       | 103         | 103        | 1   |         |            |

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**QUALITY CONTROL DATA**

Project: Hwy 378 Truck WSW 07960/57353  
 Pace Project No. 92388726

QC Batch 415640 Analysis Method: EPA 504.1  
 QC Batch Method EPA 504 1 Analysis Description: GCS 504 EDB DBCP  
 Associated Lab Samples 92388726001, 92388726002, 92388726003

METHOD BLANK 2304829 Matrix: Water

Associated Lab Samples 92388726001, 92388726002, 92388726003

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 06/18/18 17:55 |            |
| 1-Chloro-2-bromopropane (S) | %     | 124          | 70-130          |       | 06/18/18 17:55 |            |

LABORATORY CONTROL SAMPLE & LCSD 2304830

2304831

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 25         | 0.25       | 0.26        | 103       | 105        | 70-130       | 4   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 106       | 112        | 70-130       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2304832

2304833

| Parameter                   | Units | 92388726001 Result | MS Spike Conc | MSD Spike Conc | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|---------------|----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 25            | 25             | 0.24      | 0.24       | 96       | 96        | 65-135       | 0   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |               |                |           |            | 102      | 101       | 70-130       |     |         |      |

SAMPLE DUPLICATE 2304834

| Parameter                   | Units | 92388295006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 103                | 106        | 5   |         |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project Hwy 378 Truck WSW 07960/57353  
Pace Project No 92388726

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
ND - Not Detected at or above adjusted reporting limit  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter)  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 378 Truck WSW 07960/57353  
Pace Project No.: 92388726

| Lab ID      | Sample ID    | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|----------|-------------------|------------------|
| 92388726001 | WSW-3        | EPA 504.1       | 415640   | EPA 504.1         | 415663           |
| 92388726002 | DUPLICATE    | EPA 504.1       | 415640   | EPA 504.1         | 415663           |
| 92388726003 | FIELD BLANK  | EPA 504.1       | 415640   | EPA 504.1         | 415663           |
| 92388726001 | WSW-3        | EPA 524.2       | 455926   |                   |                  |
| 92388726002 | DUPLICATE    | EPA 524.2       | 455926   |                   |                  |
| 92388726003 | FIELD BLANK  | EPA 524.2       | 455926   |                   |                  |
| 92388726004 | TRIP BLANK 1 | EPA 524.2       | 455926   |                   |                  |
| 92388726001 | WSW-3        | EPA 8260        | 415602   |                   |                  |
| 92388726002 | DUPLICATE    | EPA 8260        | 415602   |                   |                  |
| 92388726003 | FIELD BLANK  | EPA 8260        | 415602   |                   |                  |
| 92388726005 | TRIP BLANK 2 | EPA 8260        | 415602   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

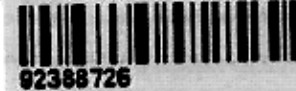
Sample Condition Upon Receipt

Client Name:

SLDHEC

Project #

WO#: **92388726**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other: \_\_\_\_\_  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 26 6-18-18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:  IR Gun ID: 92T040 Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 2.1 Correction Factor: Add/Subtract (°C) +0.4

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.5

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

|  | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                   | 1.                    |
| Samples Arrived within Hold Time? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A           | 2.                    |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A         | 3.                    |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 4.                    |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                          | 5.                    |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                    | 6.                    |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                      |                       |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A               | 7.                    |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8.                    |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                    | 9.                    |
| -Includes Date/Time/ID/Analysis Matrix: <u>W1</u>  |                       |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 10.                   |
| Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                         | 11.                   |
| Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A           |                       |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review:

TC

Date:

6/18/18

Project Manager SRF Review:

TC

Date:

6/18/18



Document Name:  
Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018  
Page 1 of 2

Document No.:  
F-CAR-CS-033-Rev.06

Issuing Authority:  
Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project

**WO# : 92388726**

PM: RMC

Due Date: 06/19/18

CLIENT: 92-SCDHEC

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (C-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (C-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>8) | BP4C-125 mL Plastic NaOH (pH > 12) (C-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (C-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (C-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-) | DG9H-40 mL VOA HCl (N/A) | VG8T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-SOAS kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG6U-100 mL Amber Unpreserved vials (N/A) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |  |  |
|-------|--|---------------------------------------|---------------------------------------|--|---|-----------------------------------|--|---|---|---|---------------------------------|--|-----------------------------------|----------------------------------|---|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 6                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 2     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 6                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 3     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 6                        | 3                            |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 4     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 2                        |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 5     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   | 2                        |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 6     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 7     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 8     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 9     |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 10    |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 11    |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |
| 12    |  |                                       |                                       |  |   |                                   |  |   |   |   |                                 |  |                                   |                                  |   |                          |                              |                          |                            |                                       |  |   |   |   |   |                                      |  |  |  |

**pH Adjustment Log for Preserved Samples**

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|  |   |   |   |
|--|---|---|---|
| <b>Section A</b><br>Required Client Information:<br>Company: <u>SCDHEC</u><br>Address: <u>2600 Bull St</u><br><u>Columbia, SC 29201</u><br>Email To: <u>dunnra@dhcc.sc.gov</u><br>Phone: <u>803-878-0621</u> Fax:<br>Requested Dup Date/TAT: | <b>Section B</b><br>Required Project Information:<br>Report To:<br>Copy To:<br>Purchase Order No.: <u>4600639990</u><br>Project Name: <u> Hwy 378 Truck Stop</u><br>Project Number: <u>CA#57353</u> | <b>Section C</b><br>Invoice Information:<br>Attention:<br>Company Name:<br>Address:<br>Pace Quote Reference:<br>Pace Project Manager: <u>Trey Carter</u><br>Pace Profile #: | Page: / of /<br><u>2019129</u><br><b>REGULATORY AGENCY</b><br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER<br>Site Location: <u>SC</u><br>STATE: |
|--|---|---|---|

| ITEM # | SAMPLE ID<br>(A-Z, 0-9 / -)<br>Sample IDs MUST BE UNIQUE | Matrix Codes<br>MATRIX / CODE | COLLECTED |       | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |      |             |                                |                  |     |      | Analysis Test<br>Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |   |          |       |
|--------|--|-------------------------------|-----------|-------|---------------------------|-----------------|---------------|------|-------------|--------------------------------|------------------|-----|------|----------------------|-----------------------------------|-------------------------|---|----------|-------|
|        |  |                               | DATE      | TIME  |                           |                 | DATE          | TIME | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH |                      |                                   |                         | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> | Methanol | Other |
|        |  |                               |           |       |                           |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 1      | WSW-3  | DW                            | 6/15      | 12:30 | 9                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 2      | Duplicate  | WT                            |           | 12:35 | 9                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 3      | Field Blank  | WW                            |           | 12:50 | 9                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 4      | Trip Blank 1   | SP                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 5      | Trip Blank 2   | SL                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 6      |  | CL                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 7      |  | WP                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 8      |  | AR                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 9      |  | TS                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 10     |  | OT                            |           |       | 2                         |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 11     |  |                               |           |       |                           |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |
| 12     |  |                               |           |       |                           |                 |               |      |             |                                |                  |     |      |                      |                                   |                         |   |          |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME  | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|-------|---------------------------|---------|------|-------------------|
| Report "J" values   | <i>[Signature]</i>            | 6/16/18 | 15:21 | C. J. [Signature] (Fedex) | 6/16    | 3:22 |                   |
|                     |                               |         |       | <i>[Signature]</i> & Pace | 6/18/18 | 9:17 | 6.5 Y N Y         |

ORIGINAL

|   |  |            |                       |                             |                      |
|---|--|------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b>   |  | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <u>RYAN ACIAH</u>                                      |  |            |                       |                             |                      |
| SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed MM/DD/YY: <u>6/15/18</u> |  |            |                       |                             |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

---

**From:** Fuss, Travis R.  
**Sent:** Thursday, June 14, 2018 3:32 PM  
**To:** Mehta, Mihir  
**Cc:** McCord, Joshua  
**Subject:** Fw: Complaint on 378

Good afternoon Mihir, Hope you are doing well! Please see the email below. We received a call from a concerned citizen who believes that his property is being impacted by an old underground storage tank that apparently has a long history with our Agency and the EPA. Can you please direct this matter to the proper staff for further review and resolution? Your assistance is greatly appreciated! Respectfully, Travis

**Travis Fuss**  
Area Director, Midlands- Aiken and Orangeburg  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 642-1637  
Fax: (803) 643-4027  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [LinkedIn](#)



---

**From:** McCord, Joshua  
**Sent:** Thursday, June 14, 2018 3:27 PM  
**To:** Fuss, Travis R.  
**Subject:** Complaint on 378

Travis,

Here is all the information I have.

The current address of the facility is 731 HWY 378 E, Edgefield, SC 29824. Tax map number is 108-00-023-000, and is currently listed as "Old Truck Stop, LLC." The facility had a few under ground storage tanks that leaked diesel and were pulled out over 40 years ago.

The former owner and PRP for the leaking tanks was Wilson Oil. Supposedly, Wilson Oil paid a fine to the EPA and paid to have monitoring wells installed by a company out of Greenville. However, one monitoring well was marked with Geologic Exploration Inc. out of Slatessville, NC.

The current owner of the property is Mr. Calvin Bartley Jr. He resides at 102 Faulkner Mountain Road, Edgefield, SC.

The complainant is Mr. John Paragon (315-778-2882) who has stated that when it rains, a sheen appears on the standing water in his yard. He believes that this is caused by the diesel leaching from the ground.

Let me know if you need any other information.

**Joshua McCord**  
Environmental Health Manager  
**S.C. Dept. of Health & Environmental Control**  
Midlands EQC Region-Aiken  
Office: ( 803) 642-1637  
Mobile: ( 803) 522-3931  
Fax: ( 803) 643-4027  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [LinkedIn](#)



Fw: 07960

Thoma, Debra L.

Wed 6/13/2018 1:32 PM

To: Patterson, Kyle C. <patterkc@dhec.sc.gov>;

Cc: Doll, Chris S. <dollcs@dhec.sc.gov>;

Kyle,

This site was assigned to you for overtime work. Given the seriousness of the situation, please contact Mr. Paragon and take the appropriate actions necessary. Thank you.

**Debra Thoma**

Manager  
Corrective Action & Quality Assurance  
UST Management Division  
Bureau of Land & Waste Management  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0643  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Place, Denise  
**Sent:** Wednesday, June 13, 2018 1:29 PM  
**To:** Thoma, Debra L.  
**Subject:** 07960

I received a call from John Paragon (315-778-2882) living at 744 Hwy 378 in Edgefield, across from site 07960. He is complaining of contaminated water in his drinking water well, brown water in his house and fuel on his lawn. He is leaving on June 19th for a month so would like a fast response.

Thanks,

Denise Place  
Environmental Health Manager  
Underground Storage Tank Management Division  
S.C. Dept. of Health & Environmental Control  
Office: (803) 898-0647  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)

"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <http://www.dhec.sc.gov/environment/LW/UST/Regulation/> for more information.



## Re: Complaint on 378

Thoma, Debra L.

Thu 6/14/2018 4:23 PM

To: Patterson, Kyle C. <patterkc@dhec.sc.gov>;

When are you planning on going out there? I'm going to provide a response back to the District but would like to give them a bit more details about what you are planning on doing and when. You might also want to touch base with Joshua McCord before you make the site visit in case he wants to meet you onsite.

**Debra Thoma**  
Manager  
Corrective Action & Quality Assurance  
UST Management Division  
Bureau of Land & Waste Management  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0643  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Thoma, Debra L.  
**Sent:** Thursday, June 14, 2018 4:18:35 PM  
**To:** Patterson, Kyle C.  
**Subject:** Fw: Complaint on 378

FYI....some more info regarding the site in Edgefield.

**Debra Thoma**  
Manager  
Corrective Action & Quality Assurance  
UST Management Division  
Bureau of Land & Waste Management  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0643  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mehta, Mihir  
**Sent:** Thursday, June 14, 2018 4:15 PM  
**To:** Thoma, Debra L.; Briney, Stephanie M.  
**Cc:** Mehta, Mihir  
**Subject:** Fw: Complaint on 378

Debra and Stephanie, not sure who's shop this project is but can you please have staff pull up the status for us. Also, do you all think a site visit might be necessary.

Thanks

**Mihir Mehta, P.E.**  
Director, UST Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0623  
Mobile: (803) 240-1998  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



WSW-3 - 100'

Across  
the  
Road

400'



1250 FB  
 1235 Dup.  
 1230 Sample  
 Sample from  
 6/15/18

TABLE 2  
 SUMMARY OF LABORATORY ANALYTICAL RESULTS  
 GROUND WATER SAMPLES  
 CHEMICALS OF CONCERN  
 378 TRUCK STOP  
 UST PERMIT # 07960

| Well No.          | Date     | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE   | Naphthalene | 1,2-DCA | EDB     |
|-------------------|----------|---------|---------|--------------|---------|--------|-------------|---------|---------|
| RBSL (µg/l)       |          | 5       | 1,000   | 700          | 10,000  | 40     | 25          | 5       | 0.05    |
| MW-25             | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-26             | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-27             | 08/31/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-28             | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| MW-29             | 08/31/17 | 4.8     | <0.30   | 0.48 J       | <0.72   | 2.1    | <1.0        | 78.9    | <0.0095 |
| MW-30             | 08/30/17 | 263     | 5.3     | 16.2         | 25.3    | <1.1   | 14.5 J      | 57.7    | <0.0095 |
| MW-31             | 08/30/17 | 110     | 9.1     | 22.7         | 45.6    | <0.46  | 19.6        | 38.3    | <0.0095 |
| TW-1              | 08/30/17 | 9.0     | 0.51 J  | 4.3          | 5.6     | 6.5    | <1.0        | 65.7    | <0.0095 |
| TW-2              | 08/30/17 | 0.92 J  | 0.46 J  | 0.52 J       | 1.9 J   | 0.40 J | <1.0        | 8.4     | <0.0096 |
| TW-3              | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| TW-4              | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | 0.53 J  | <0.0095 |
| TW-5              | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0097 |
| TW-6              | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| TW-7              | 08/29/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| TW-8              | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0095 |
| TW-9              | 08/30/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0095 |
| Field Blank       | 08/31/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | <0.0096 |
| Trip Blank        | 08/31/17 | <0.31   | <0.30   | <0.36        | <0.72   | <0.23  | <1.0        | <0.31   | NR      |
| WSW-1 (Pre)       | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | 4.8     | <0.0080 |
| WSW-1 (Pre) DUP C | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | 4.7     | <0.0080 |
| WSW-1 (Post)      | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | 1.4     | <0.0080 |
| WSW-2             | 08/31/17 | <0.20   | <0.20   | <0.20        | <0.20   | <0.20  | <0.20       | <0.20   | <0.0080 |



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
**2019129**

|  |  |   |  |  |  |   |  |
|--|--|---|--|--|--|---|--|
| <b>Section A</b><br>Required Client Information: |  | <b>Section B</b><br>Required Project Information: |  | <b>Section C</b><br>Invoice Information: |  | <b>REGULATORY AGENCY</b>  |  |
| Company: <u>SCDHEC</u>                           |  | Report To:  |  | Attention:                               |  | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER |  |
| Address: <u>2600 Bull St</u>                     |  | Copy To:  |  | Company Name:                            |  | Site Location   |  |
| <u>Columbia, SC 29201</u>                        |  |   |  | Address:                                 |  | STATE: <u>SC</u>  |  |
| Email To: <u>dunnrc@dhec.sc.gov</u>              |  | Purchase Order No.: <u>4600639990</u>             |  | Pace Quote Reference:                    |  |   |  |
| Phone: <u>803-898-0671</u> Fax:                  |  | Project Name: <u>HWY 378 TRUCK STOP</u>           |  | Pace Project Manager: <u>Trey Carter</u> |  |   |  |
| Requested Due Date/TAT:                          |  | Project Number: <u>CA #57353</u>                  |  | Pace Profile #:                          |  |   |  |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   | Analysis Test<br>Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No. / Lab I.D. |          |       |
|--------|--|-------------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------------------|-----------------------------------|-------------------------|-----------------------------|----------|-------|
|        |  |                               | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |                      |                                   |                         |                             | Methanol | Other |
|        |  |                               | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 1      | WSW-3                                    | DWG                           |                 |      | 6/15               | 1230 | 9                         |                 |               |                                |                  |     |      |   |                      |                                   | LDL                     |                             |          |       |
| 2      | Duplicate                                | LG                            |                 |      |                    | 1235 | 9                         |                 |               |                                |                  |     |      |   |                      |                                   | LDL                     |                             |          |       |
| 3      | Field Blank                              | LG                            |                 |      |                    | 1250 | 9                         |                 |               |                                |                  |     |      |   |                      |                                   | LDL                     |                             |          |       |
| 4      | Trip Blank 1                             | LG                            |                 |      |                    |      | 2                         |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 5      | Trip Blank 2                             | DWG                           |                 |      | 6/15               |      | 2                         |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 6      |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 7      |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 8      |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 9      |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 10     |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 11     |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |
| 12     |  |                               |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                             |          |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME  | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|-------|---------------------------|------|------|-------------------|
| Report "J" values   | V. P. [Signature]             | 6/15/18 | 15:21 | C. D. [Signature]         | 6/16 | 3:22 |                   |
|                     |                               |         |       |                           |      |      |                   |
|                     |                               |         |       |                           |      |      |                   |

|  |  |            |                       |                             |                      |
|--|--|------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b>        |  | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <u>KYAN AKIAL</u> |  |            |                       |                             |                      |
| SIGNATURE of SAMPLER: [Signature]        |  |            |                       |                             |                      |
| DATE Signed (MM/DD/YY): <u>6/15/18</u>   |  |            |                       |                             |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-Q-020rev.07, 15-May-2007



Address: 150 QUEEN PARKWAY  
WEST COLUMBIA  
SC 29169  
Location: USCA  
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off  
439422025787

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide  
at [fedex.com](http://fedex.com) for details. All merchandise sales final.

Visit us at: [fedex.com](http://fedex.com)  
Or call 1.800.GoFedEx  
1.800.463.3339

Jun 16, 2018 3:23:15 PM

### Instructions for completing Chain of Custody (COC)

1. Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are no other contacts listed on the final report.), e-mail address (if available), PO#, Project Name and/or Project Number as you would like to see it

2. Billing information is included in this section. This information should include the name and address of the person

3. Billing information should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by

4. Billing information must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the

5. Billing information program that is guiding the work to ensure proper regulations are followed.

6. Billing information Description in the "SAMPLE ID" section as you would like it to appear on the laboratory report. The following information should be included: the sample matrix, sample type (G (grab) or C (composite)). When collecting a composite, the start time and end time should be entered in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked 'Composite Collection (if required by state), the total number of containers, and preservative used.

7. Billing information Filtered in the field by marking Y or N in 'Filtered' row by the Analysis requested.

8. Billing information Required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. The analysis should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.

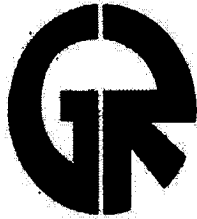
9. Billing information Name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the space marked 'ANALYST NAME AND SIGNATURE'.

10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

#### \*Important Note:

**Standard Turnaround Time is 2 Weeks/10 business days.** Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

**Special Project Requirements** such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.



**Geological Resources, Inc.**



July 6, 2018

Mr. Kyle Patterson  
SCDHEC  
UST Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, SC 29201

Re: Granular Activated Carbon Units Maintenance  
378 Truck Stop  
731 Highway 378  
Edgefield, Edgefield County, SC  
UST Permit No. 07960  
GRI Project No. 4422

Dear Mr. Patterson:

This letter is in response to our Thursday June 21, 2018 telephone conversation concerning the maintenance and upkeep of several granular activated carbon (GAC) units currently being used on water supply wells in the area of the above referenced site.

Geological Resources, Inc. (GRI) is the designated contractor of choice for the Wilkerson Fuel Company, which is the responsible party for the release at the subject site. As such, GRI has and wishes to continue conducting continued assessment and remediation activities associated with the release at this site. These activities would include the continued sampling of the water supply wells in the area. However, GRI does not wish to partake in the installation and/or maintenance of the GAC units in service at some of the water supply wells in the area of the subject site. It is our understanding that a SCDHEC State Lead contractor can maintain the GAC units in question. Based on this, GRI requests that any and all GAC installation and/or maintenance activities required by SCDHEC be conducted by the appropriate State Lead contractor.

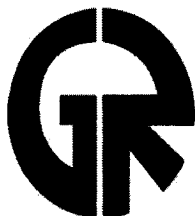
Please contact me at (704) 845-4010 or [wsb@geologicalresourcesinc.com](mailto:wsb@geologicalresourcesinc.com) if you have any comments or questions regarding this matter.

Sincerely,

W. Scott Ball  
Project Manager

Mr. Frank Wilkerson  
Owner - Wilkerson Fuel Company

cc: file



**Geological Resources, Inc.**

July 6, 2018

Mr. Kyle Patterson  
SCDHEC  
UST Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, SC 29201



Re: Granular Activated Carbon Units Maintenance  
378 Truck Stop  
731 Highway 378  
Edgefield, Edgefield County, SC  
UST Permit No. 07960  
GRI Project No. 4422



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Please contact me at (704) 845-4010 or [wsb@geologicalresourcesinc.com](mailto:wsb@geologicalresourcesinc.com) if you have any comments or questions regarding this matter.

Sincerely,

W. Scott Ball  
Project Manager

Mr. Frank Wilkerson  
Owner – Wilkerson Fuel Company

cc: file

# GAC Unit Installation and Maintenance

Date: 6/19/18

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

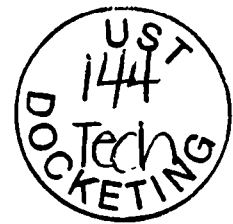
GAC Unit Serial Number: Tank #  
Controller #



## NEW INSTALLATION

Date Installation Completed: \_\_\_\_\_

- Attachments Required
- schematic of system as installed
  - copy of analytical data for pre and post GAC samples
  - calculations of filter change
  - calculations of breakthrough



## MAINTENANCE AND SERVICE

### FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit                               In Need of Repair\*                        X   Good

Condition of GAC Housing                               In Need of Repair\*                        X   Good

\*Repairs Needed:

### SERVICE/REPAIR CALL

Service or Repair Provided:

### SAMPLE COLLECTION

- Pre-GAC
- Pre-GAC DUP

- Mid-GAC
- Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan dated May 18, 2018. Please find the attached Pace Chain of Custody Record. (Pace CA #56413).

# GAC Unit Installation and Maintenance

Date: 6/19/18

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #  
Controller #

## NEW INSTALLATION

Date Installation Completed: \_\_\_\_\_

- Attachments Required
- schematic of system as installed
  - copy of analytical data for pre and post GAC samples
  - calculations of filter change
  - calculations of breakthrough

## MAINTENANCE AND SERVICE

### FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit                      \_\_\_\_\_ In Need of Repair\*                      X Good

Condition of GAC Housing                      \_\_\_\_\_ In Need of Repair\*                      X Good

\*Repairs Needed:

### SERVICE/REPAIR CALL

Service or Repair Provided:

### SAMPLE COLLECTION

Pre-GAC  
 Pre-GAC DUP

Mid-GAC  
 Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated May 18, 2018. Please find the attached Pace Chain of Custody Record. (Pace CA #56413).

# GAC Maintenance Report

Permit # 07960  
 Emerald Job # 245

| Address   | Serial # | Model # | Date Serviced | Condition of Unit  | Samples Collected  |
|---|----------|---------|---------------|--|--|
| 730 Hwy 378 East, Edgefield, SC<br>Scurry Residence |          |         | 6/19/18       | Needs Repairs <input type="checkbox"/><br>Good <input checked="" type="checkbox"/> | Pre-GAC <input checked="" type="checkbox"/><br>Dup-GAC <input checked="" type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input checked="" type="checkbox"/> |
| 724 Hwy 378 East, Edgefield, SC<br>Gordon Residence |          |         | 6/19/18       | Needs Repairs <input type="checkbox"/><br>Good <input checked="" type="checkbox"/> | Pre-GAC <input checked="" type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input checked="" type="checkbox"/>            |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |

**Notes:**

Filter Disposal Method: Landfill

Service/Repairs:

**Comments:** Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.





### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
**2192466**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>Section A</b><br>Required Client Information:   |  | <b>Section B</b><br>Required Project Information:  |  | <b>Section C</b><br>Invoice Information: |  |
| Company: <u>SCDHEC</u>   |  | Report To: <u>A. Thrash</u>                        |  | Attention:                               |  |
| Address: <u>2600 Bull Street</u><br><u>Columbia SC 29151</u>   |  | Copy To:   |  | Company Name:                            |  |
| Email To:  |  | Purchase Order No.:                                |  | Address:                                 |  |
| Phone:   |  | Project Name: <u>378 Truck Stop</u>                |  | Pace Quote Reference:                    |  |
| Requested Due Date/TAT: <u>*24 hr Turn</u>   |  | Project Number: <u>Site ID 07960 Pace CA 56413</u> |  | Pace Project Manager:                    |  |
|  |  |  |  | Pace Profile #:                          |  |
| <b>REGULATORY AGENCY</b>   |  |  |  |  |  |
| <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ |  |  |  |  |  |
| <b>Site Location</b>   |  |  |  |  |  |
| STATE: <u>SC</u>   |  |  |  |  |  |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   | Analysis Test<br>Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |          |       |
|--------|--|-------------------------------|---------------------------------------|-----------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------------------|-----------------------------------|-------------------------|----------------------------|----------|-------|
|        |  |                               |                                       |                             | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |                      |                                   |                         |                            | Methanol | Other |
|        |  |                               |                                       |                             | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 1      | 07960 WSW-1 Pre GAC                      | WTG                           |                                       |                             |                 |      | 6-19-18            | 1240 | 9                         |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 2      | WSW-1 Pre GAC Dup                        |                               |                                       |                             |                 |      |                    | 1243 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 3      | WSW-1 Post GAC                           |                               |                                       |                             |                 |      |                    | 1250 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 4      | WSW-8 Pre GAC                            |                               |                                       |                             |                 |      |                    | 1120 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 5      | WSW-8 Post GAC                           |                               |                                       |                             |                 |      |                    | 1130 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 6      | WSW-2                                    |                               |                                       |                             |                 |      |                    | 1420 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 7      | WSW-4                                    |                               |                                       |                             |                 |      |                    | 1450 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 8      | WSW-5                                    |                               |                                       |                             |                 |      |                    | 1515 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 9      | WSW-6                                    |                               |                                       |                             |                 |      |                    | 1540 |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 10     | Field Blank                              |                               |                                       |                             |                 |      |                    | 1300 | 9                         |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 11     | 07960 Trip Blank                         | WTG                           |                                       |                             |                 |      | 6-19-18            |      | 4                         |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |
| 12     |  |                               |                                       |                             |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                      |                                   |                         |                            |          |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| 24 hr Turn *        | Cody Papp                     | 6-19-18 | 1700 | [Signature]               | 6/19/18 | 1730 |                   |
| WSW-1 - Scurry      |                               |         |      |                           |         |      |                   |
| WSW-8 - Gordon      |                               |         |      |                           |         |      |                   |

2

|  |  |            |                       |                             |                      |
|--|--|------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b>        |  | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <u>Cody Papp</u>  |  |            |                       |                             |                      |
| SIGNATURE OF SAMPLER: <u>[Signature]</u> |  |            |                       |                             |                      |
| DATE Signed (MM/DD/YY): <u>6-19-18</u>   |  |            |                       |                             |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

### Instructions for completing Chain of Custody (COC)

1. **Section A and B:** Complete all Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are questions, and who will receive the final report.), e-mail address (if available), PO#, Project Name and/or Project Number as you would like to see it appear on the report.
2. **Section C:** Invoice Information: Billing information is included in this section. This information should include the name and address of the person receiving the invoice.
3. Quote Reference should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by Pace Analytical Services.
4. **Site Location:** A separate COC must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the samples were collected.
5. **Regulatory Agency:** List the program that is guiding the work to ensure proper regulations are followed.
6. **Section D:** Complete a Sample Description in the "SAMPLE ID" section as you would like it to appear on the laboratory report. The following information should also be included: the sample matrix, sample type (G (grab) or C (composite)). When collecting a composite, the start time and end time should be documented in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked 'Composite End/Grab', Sample temp at collection (if required by state), the total number of containers, and preservative used.
7. Mark if the sample was filtered in the field by marking Y or N in 'Filtered' row by the Analysis requested.
8. Requested Analysis: List the required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. Additional comments should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.
9. The sampler should print their name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the spaces designated for 'SAMPLER NAME AND SIGNATURE'.
10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

**\*Important Note:**

**Standard Turnaround Time is 2 Weeks/10 business days.** Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

**Special Project Requirements** such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
242192491

|  |  |   |  |  |  |
|--|--|---|--|--|--|
| <b>Section A</b><br>Required Client Information:   |  | <b>Section B</b><br>Required Project Information: |  | <b>Section C</b><br>Invoice Information: |  |
| Company: <u>SCDHEC</u>   |  | Report To: <u>A. Thrash</u>                       |  | Attention:                               |  |
| Address: <u>2600 Bull Street</u><br><u>Columbia, SC 29151</u>  |  | Copy To:  |  | Company Name:                            |  |
| Email To:  |  | Purchase Order No.:                               |  | Address:                                 |  |
| Phone:   |  | Project Name: <u>378 Truck Stop</u>               |  | Pace Quote Reference:                    |  |
| Requested Due Date/TAT: <u>*24 hr. turn</u>  |  | Project Number: <u>SHC ID 07960 PALEASUB</u>      |  | Pace Project Manager:                    |  |
|  |  |   |  | Pace Profile #:                          |  |
| <b>REGULATORY AGENCY</b>   |  |   |  |  |  |
| <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER |  |   |  |  |  |
| Site Location  |  |   |  |  |  |
| STATE: <u>SC</u>   |  |   |  |  |  |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATRIX CODE<br>(see valid codes to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED       |                    |         |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |      |             |                                |                  |     | Analysis Test<br>Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |      |   |          |       |
|--------|--|-------------------------------|--|--------------------------------|-----------------|--------------------|---------|------|---------------------------|-----------------|---------------|------|-------------|--------------------------------|------------------|-----|----------------------|-----------------------------------|-------------------------|----------------------------|------|---|----------|-------|
|        |  |                               |  |                                | COMPOSITE START | COMPOSITE END/GRAB | DATE    | TIME |                           |                 | DATE          | TIME | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl |                      |                                   |                         |                            | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other |
| 1      |  | WSW-7                         | WTG                                      | G                              |                 |                    | 6/20/18 | 1040 | 9                         |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 2      |  | WSW-9                         |  |                                |                 |                    |         | 1100 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 3      |  | WSW-10                        |  |                                |                 |                    |         | 1245 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 4      |  | WSW-11                        |  |                                |                 |                    |         | 1230 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 5      |  | WSW-12                        |  |                                |                 |                    |         | 1210 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 6      |  | WSW-13                        |  |                                |                 |                    |         | 1200 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 7      |  | WSW-14                        |  |                                |                 |                    |         | 1140 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 8      |  | WSW-15                        |  |                                |                 |                    |         | 1120 |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 9      |  | Field Blank 2                 |  |                                |                 |                    |         | 1300 | 9                         |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 10     |  | 07960 Trip Blank 2            | WTG                                      | G                              |                 |                    | 6/20/18 | -    | 4                         |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 11     |  |                               |  |                                |                 |                    |         |      |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |
| 12     |  |                               |  |                                |                 |                    |         |      |                           |                 |               |      |             |                                |                  |     |                      |                                   |                         |                            |      |   |          |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| 24 hr. turn*        | Ludy Papp                     | 6/20/18 | 1630 | Beaver                    | 6/20/18 | 430  |                   |
|                     |                               |         |      |                           |         |      |                   |
|                     |                               |         |      |                           |         |      |                   |

2

|  |                       |  |                      |
|--|-----------------------|--|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b>        |                       |  |                      |
| PRINT Name of SAMPLER: <u>Ludy Papp</u>  |                       | DATE Signed (MM/DD/YY): <u>6-20-18</u> |                      |
| SIGNATURE OF SAMPLER: <u>[Signature]</u> |                       |  |                      |
| Temp in °C                               | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N)            | Samples Intact (Y/N) |

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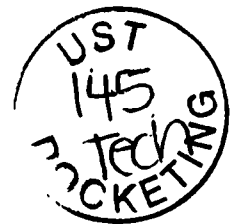
**Special Project Requirements** such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.



**Geological Resources, Inc.**

July 5, 2018

Mr. Kyle Patterson  
South Carolina Department of Health  
And Environmental Control  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, South Carolina 29201



Re: GRI Proposal No. 18-398  
Site Specific Work Plan  
378 Truck Stop  
731 Highway 378  
Edgefield, Edgefield County  
UST Permit No. 07960  
GRI Project No. 4422

Dear Mr. Patterson:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Edgefield, Edgefield County, South Carolina.

Please contact me at (704) 845-4010 or by e-mail at [wsb@geologicalresourcesinc.com](mailto:wsb@geologicalresourcesinc.com) if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball  
Senior Project Manager

Enclosures

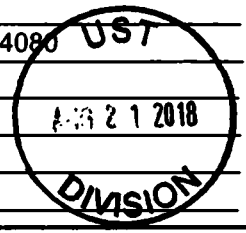
cc: file



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Kyle Patterson (SCDHEC Project Manager)  
 From: Scott Ball (Contractor Project Manager)  
 Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: 378 Truck Stop UST Permit #: 07960  
 Facility Address: 731 Highway 378, Edgefield, Edgefield County, SC  
 Responsible Party: Wilkerson Fuel Company Phone: (803) 324-4080  
 RP Address: PO Box 2835, Rock Hill, SC 29732  
 Property Owner (if different): Old Truck Stop, LLC  
 Property Owner Address: 102 Faulkner Mountain Road, Edgefield, SC 29824  
 Current Use of Property: Vacant, unoccupied



**Scope of Work** (Please check all that apply)

- IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other Soil Assessment

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B)       Lead       BOD       Methane  
 Oxygenates (8260B)       8 RCRA Metals       Nitrate       Ethanol  
 EDB (8011)       TPH       Sulfate       Dissolved Iron  
 PAH (8270D)       pH       Other \_\_\_\_\_

Drinking Water Supply Wells:

- BTEXNMDCA (524.2)       Mercury (200.8 245.1 or 245.2)       EDB (504.1)  
 Oxygenates & Ethanol (8260B)       RCRA Metals (200.8)

Soil:

- BTEXNM       Lead       RCRA Metals       TPH-DRO (3550B/8015B)       Grain Size  
 PAH       Oil & Grease (9071)       TPH-GRO (5030B/8015B)       TOC

Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil      \_\_\_\_\_ Water Supply Wells      \_\_\_\_\_ Air      1 Field Blank  
42 Monitoring Wells      \_\_\_\_\_ Surface Water      3 Duplicate      1 Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: 10 Estimated Footage: 10 feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: NA Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: 2 Estimated Footage: 80 feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Comments, if warranted:

Two down-gradient telescoping wells in the area of WSW-3. Each well will be installed to a total depth of 80'  
No drilling will be conducted until necessary Right-to-enter agreements are obtained.

UST Permit #: 07960 Facility Name: 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 10 days from obtaining RTEs Field Work Completion: 20 days field work start up  
Report Submittal: 45 days from completion of field work # of Copies Provided to Property Owners: 10

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: \_\_\_\_\_ Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Install 10 soil borings around old waste oil dump pit. Each to 10' in depth, collect samples at 5' and 10'.

Sample monitoring wells MW-1 through MW-31 and TW-1 through TW-9.

One field blank will be collected and one trip blank will be submitted. Samples collected from the monitoring wells and the associated duplicate will be analyzed for BTEX, naphthalene, MTBE, 1,2-DCA and 8 oxygenates by 8260 and EDB by 8011.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

YES Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_

SCDHEC Certification Number: \_\_\_\_\_

Name of Laboratory Director: \_\_\_\_\_

NA Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_

SCLLR Certification Number: \_\_\_\_\_

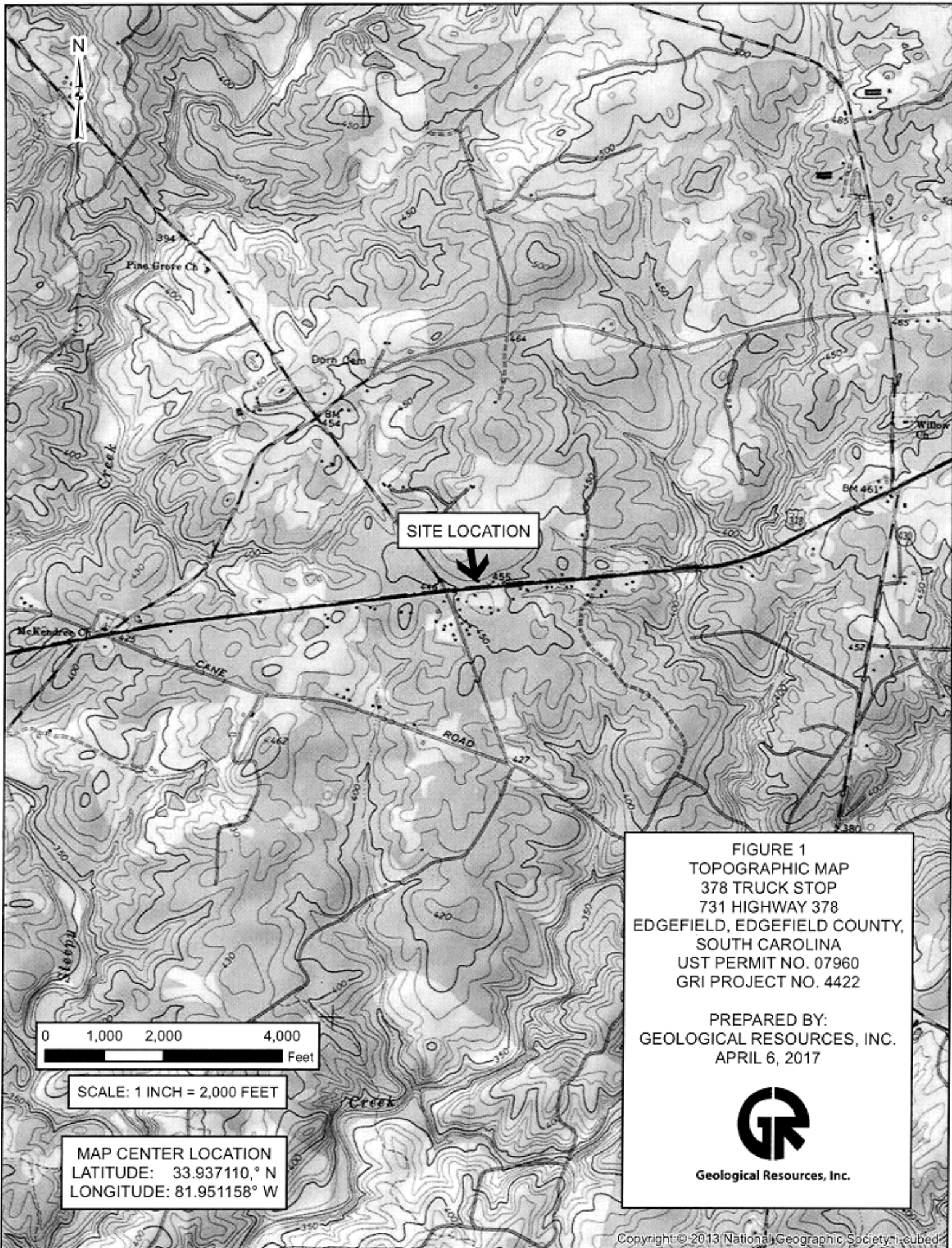
NA Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

|                                    |   |
|------------------------------------|---|
| North Arrow                        | Proposed monitoring well locations                                      |
| Location of property lines         | Legend with facility name and address, UST permit number, and bar scale |
| Location of buildings              | Streets or highways (indicate names and numbers)                        |
| Previous soil sampling locations   | Location of all present and former ASTs and USTs                        |
| Previous monitoring well locations | Location of all potential receptors                                     |
| Proposed soil boring locations     |   |
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



SITE LOCATION

FIGURE 1  
TOPOGRAPHIC MAP  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, EDGEFIELD COUNTY,  
SOUTH CAROLINA  
UST PERMIT NO. 07960  
GRI PROJECT NO. 4422

PREPARED BY:  
GEOLOGICAL RESOURCES, INC.  
APRIL 6, 2017



Geological Resources, Inc.

0 1,000 2,000 4,000  
Feet

SCALE: 1 INCH = 2,000 FEET

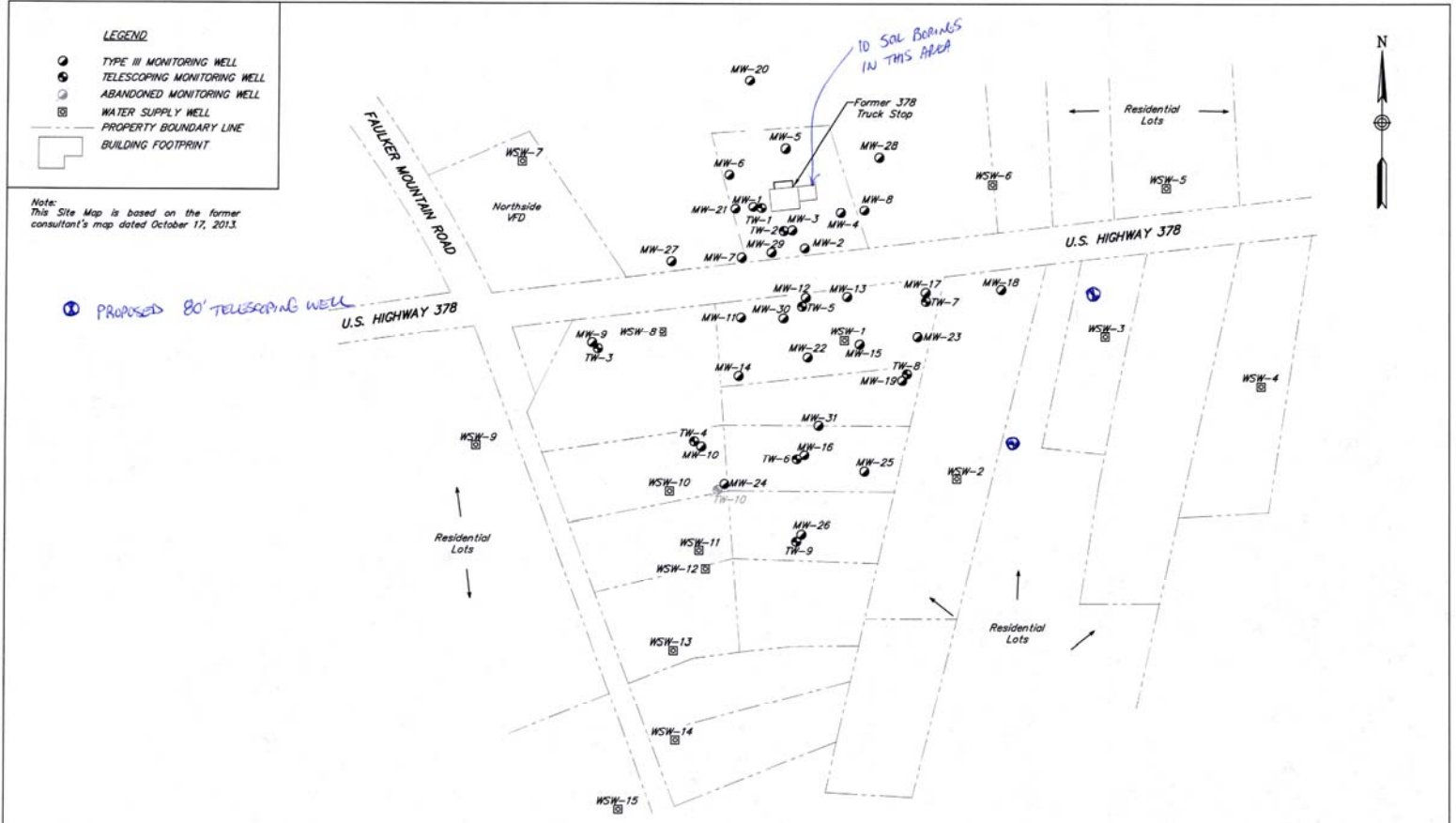
MAP CENTER LOCATION  
LATITUDE: 33.937110° N  
LONGITUDE: 81.951158° W



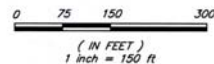
**LEGEND**

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- ⊙ ABANDONED MONITORING WELL
- ⊠ WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT

Note:  
This Site Map is based on the former  
consultant's map dated October 17, 2013.



Geological Resources, Inc.



| SITE MAP             |                                 |
|----------------------|---------------------------------|
| 378 Truck Stop       | 731 Highway 378                 |
| UST Permit No. 07960 | Edgefield, Edgefield County, SC |
| GRI Project No. 4422 |                                 |
| Date: 09/29/17       | Drawn by: DTH Figure: 2         |



Healthy People. Healthy Communities.

**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account

June 15, 2017

**Facility Name:** 378 Truck Stop GRI Proposal No. 18-398  
**UST Permit #:** 07960 **Cost Agreement #:** \_\_\_\_\_

| ITEM   | QUANTITY | UNIT              | UNIT PRICE | TOTAL      |
|--|----------|-------------------|------------|------------|
| <b>1. Plan Preparation</b>   |          |                   |            |            |
| A1. Site-specific Work Plan  | 1        | each              | \$150.00   | \$150.00   |
| B1. Tax Map  |          | each              | \$70.00    | \$0.00     |
| C1. Tier II or Comp. Plan /QAPP Appendix B   |          | each              | \$250.00   | \$0.00     |
| <b>2. A1. Receptor Survey *</b>  |          |                   |            |            |
|  |          | each              | \$551.00   | \$0.00     |
| <b>3. Survey (500 ft x 500 ft)</b>   |          |                   |            |            |
| A1. Comprehensive Survey   |          | each              | \$1,040.00 | \$0.00     |
| <b>B. Subsurface Geophysical Survey</b>  |          |                   |            |            |
| 1B. < 10 meters below grade  |          | each              | \$1,300.00 | \$0.00     |
| 2B. > 10 meters below grade  |          | each              | \$2,310.00 | \$0.00     |
| C1. Geophysical UST or Drum Survey   |          | each              | \$910.00   | \$0.00     |
| <b>4. Mob/Demob</b>  |          |                   |            |            |
| A1. Equipment  | 1        | each              | \$1,020.00 | \$1,020.00 |
| B1. Personnel  | 5        | each              | \$423.00   | \$2,115.00 |
| C1. Adverse Terrain Vehicle  |          | each              | \$500.00   | \$0.00     |
| <b>5. A1. Soil Borings (hand auger)*</b>   |          |                   |            |            |
|  |          | foot              | \$5.00     | \$0.00     |
| <b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b> |          |                   |            |            |
| AA. Standard   | 100      | per foot          | \$15.00    | \$1,500.00 |
| C1. Fractured Rock   |          | per foot          | \$20.20    | \$0.00     |
| <b>7. A1. Soil Leachability Model</b>  |          |                   |            |            |
|  |          | each              | \$60.00    | \$0.00     |
| <b>8. Abandonment (per foot)*</b>  |          |                   |            |            |
| A1. 2" diameter or less  | 100      | per foot          | \$3.10     | \$310.00   |
| B1. Greater than 2" to 6" diameter   |          | per foot          | \$4.50     | \$0.00     |
| C1. Dug/Bored well (up to 6 feet diameter)   |          | per foot          | \$15.00    | \$0.00     |
| <b>9. Well Installation (per foot)*</b>  |          |                   |            |            |
| A1. Water Table (hand augered)   |          | per foot          | \$10.60    | \$0.00     |
| B1. Water Table (drill rig)  |          | per foot          | \$38.00    | \$0.00     |
| CC. Telescoping  | 160      | per foot          | \$50.00    | \$8,000.00 |
| DD. Rock Drilling  |          | per foot          | \$58.00    | \$0.00     |
| E1. 2" Rock Coring   |          | per foot          | \$30.90    | \$0.00     |
| G1. Rock Multi-sampling ports/screens  |          | per foot          | \$33.40    | \$0.00     |
| HH. Recovery Well (4" diameter)  |          | per foot          | \$45.00    | \$0.00     |
| II. Pushed Pre-packed screen (1.25" dia)   |          | per foot          | \$15.00    | \$0.00     |
| J1. Rotasonic (2" diameter)  |          | per foot          | \$44.00    | \$0.00     |
| K. Re-develop Existing Well  |          | per foot          | \$11.00    | \$0.00     |
| <b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>   |          |                   |            |            |
| A1. Groundwater Purge <small>if screens are buried</small>   | 42       | per well/receptor | \$60.00    | \$2,520.00 |
| B1. Air or Vapors  |          | per receptor      | \$12.00    | \$0.00     |
| C1. Water Supply   |          | per well/receptor | \$22.00    | \$0.00     |
| D1. Groundwater No Purge or Duplicate  | 3        | per well/receptor | \$28.00    | \$84.00    |
| E1. Gauge Well only  |          | per well          | \$7.00     | \$0.00     |
| F1. Sample Below Product   |          | per well          | \$12.00    | \$0.00     |
| G1. Passive Diffusion Bag  |          | each              | \$26.00    | \$0.00     |
| H1. Field Blank  | 1        | each              | \$24.60    | \$24.60    |



| I. Groundwater (low flow purge)                   |     | per well/receptor | \$91.00  | \$0.00     |
|---|-----|-------------------|----------|------------|
| <b>11. Laboratory Analyses-Groundwater</b>        |     |                   |          |            |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)              | 47  | per sample        | \$122.00 | \$5,734.00 |
| AA1. Lead, Filtered                               |     | per sample        | \$13.80  | \$0.00     |
| B2. Rush EPA Method 8260B (All of item A.)        |     | per sample        | \$153.60 | \$0.00     |
| C2. Trimethyl, Butyl, and Isopropyl Benzenes      |     | per sample        | \$36.40  | \$0.00     |
| D1. PAH's   |     | per sample        | \$60.60  | \$0.00     |
| E1. Lead  |     | per sample        | \$16.00  | \$0.00     |
| F1. EDB by EPA 8011                               | 46  | per sample        | \$45.20  | \$2,079.20 |
| FF1. EDB by EPA Method 8011 Rush                  |     | per sample        | \$68.20  | \$0.00     |
| G1. 8 RCRA Metals                                 |     | per sample        | \$63.40  | \$0.00     |
| H1. TPH (9070)                                    |     | per sample        | \$41.00  | \$0.00     |
| II. pH  |     | per sample        | \$5.20   | \$0.00     |
| J1. BOD   |     | per sample        | \$20.00  | \$0.00     |
| PP. Ethanol                                       |     | per sample        | \$14.80  | \$0.00     |
| <b>11. Analyses-Drinking Water</b>                |     |                   |          |            |
| L. BTEXNM+1,2 DCA (524.2)                         |     | per sample        | \$124.05 | \$0.00     |
| M. 7-OXYGENATES & ETHANOL (8260B)                 |     | per sample        | \$91.75  | \$0.00     |
| N. EDB (504.1)                                    |     | per sample        | \$79.50  | \$0.00     |
| O. RCRA METALS (200.8)                            |     | per sample        | \$100.00 | \$0.00     |
| <b>11. Analyses-Soil</b>                          |     |                   |          |            |
| Q1. BTEX + Naphth.                                | 10  | per sample        | \$64.00  | \$640.00   |
| R1. PAH's   | 10  | per sample        | \$64.04  | \$640.40   |
| S1. 8 RCRA Metals                                 | 10  | per sample        | \$56.40  | \$564.00   |
| U1. TPH-DRO (3550C/8015C)                         |     | per sample        | \$40.00  | \$0.00     |
| V1. TPH- GRO (5030B/8015C)                        |     | per sample        | \$35.96  | \$0.00     |
| W1. Grain size/hydrometer                         |     | per sample        | \$104.00 | \$0.00     |
| X1. Total Organic Carbon                          |     | per sample        | \$30.60  | \$0.00     |
| <b>11. Analyses-Air</b>                           |     |                   |          |            |
| Y1. BTEX + Naphthalene                            |     | per sample        | \$216.00 | \$0.00     |
| <b>11. Analyses-Free Phase Product</b>            |     |                   |          |            |
| Z1. Hydrocarbon Fuel Identification               |     | per sample        | \$357.00 | \$0.00     |
| <b>12. Aquifer Characterization</b>               |     |                   |          |            |
| A1. Pumping Test*                                 |     | per hour          | \$23.00  | \$0.00     |
| B1. Slug Test*                                    |     | per test          | \$191.00 | \$0.00     |
| C1. Fractured Rock                                |     | per test          | \$100.00 | \$0.00     |
| <b>13. A1. Free Product Recovery Rate Test*</b>   |     | each              | \$38.00  | \$0.00     |
| <b>14. Fate/Transport Modeling</b>                |     |                   |          |            |
| A1. Mathematical Model                            |     | each              | \$100.00 | \$0.00     |
| B1. Computer Model                                |     | each              | \$100.00 | \$0.00     |
| <b>15. Risk Evaluation</b>                        |     |                   |          |            |
| A. Tier I Risk Evaluation                         |     | each              | \$300.00 | \$0.00     |
| B1. Tier II Risk Evaluation                       |     | each              | \$100.00 | \$0.00     |
| <b>16. A1. Subsequent Survey*</b>                 | 1   | each              | \$260.00 | \$260.00   |
| <b>17. Disposal (gallons or tons)*</b>            |     |                   |          |            |
| AA. Wastewater                                    | 350 | gallon            | \$0.56   | \$196.00   |
| BB. Free Product                                  |     | gallon            | \$0.50   | \$0.00     |
| C1. Soil Treatment/Disposal                       | 4   | ton               | \$60.00  | \$240.00   |
| D1. Drilling fluids                               | 200 | gallon            | \$0.42   | \$84.00    |
| <b>18. Miscellaneous (attach receipts)</b>        |     |                   |          |            |
|   |     | each              | \$0.00   | \$0.00     |
|   |     | each              | \$0.00   | \$0.00     |
|   |     | each              | \$0.00   | \$0.00     |
| <b>20. Tier I Assessment (Use DHEC 3665 form)</b> |     | standard          |          | \$0.00     |
| <b>21. IGWA (Use DHEC 3666 form)</b>              |     | standard          |          | \$0.00     |
| <b>22. Corrective Action (Use DHEC 3667 form)</b> |     | PFP Bid           |          | \$0.00     |



|  |     |           |             |  |                    |
|--|-----|-----------|-------------|--|--------------------|
| <b>23. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>                                |     |           |             |  |                    |
| A1. 8-hour Event*  |     | each      | \$1,375.00  |  | \$0.00             |
| AA. 24-hour Event*   |     | each      | \$3,825.00  |  | \$0.00             |
| A3. 48-hour Event*   |     | each      | \$6,265.00  |  | \$0.00             |
| A4. 96-hour Event*   |     | each      | \$12,567.50 |  | \$0.00             |
| C1. Off-gas Treatment 8 hour   |     | per event | \$122.50    |  | \$0.00             |
| C2. Off-gas Treatment 24 hour  |     | per event | \$241.50    |  | \$0.00             |
| C3. Off-gas Treatment 48 hour  |     | per event | \$327.00    |  | \$0.00             |
| C4. Off-gas Treatment 96 hour  |     | per event | \$780.00    |  | \$0.00             |
| D. Site Reconnaissance   |     | each      | \$203.25    |  | \$0.00             |
| E1. Additional Hook-ups  |     | each      | \$25.75     |  | \$0.00             |
| F1. Effluent Disposal  |     | gallon    | \$0.44      |  | \$0.00             |
| G. AFVR Mobilization/Demobilization  |     | each      | \$391.50    |  | \$0.00             |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |           |             |  |                    |
| A1. New GAC System Installation*   |     | each      | \$1,900.00  |  | \$0.00             |
| BB. Refurbished GAC Sys. Install*  |     | each      | \$900.00    |  | \$0.00             |
| C1. Filter replacement/removal*  |     | each      | \$350.00    |  | \$0.00             |
| DD. GAC System removal, cleaning, & refurbishment*                                     |     | each      | \$275.00    |  | \$0.00             |
| E1. GAC System housing*  |     | each      | \$250.00    |  | \$0.00             |
| F. In-line particulate filter  |     | each      | \$150.00    |  | \$0.00             |
| G1. Additional piping & fittings   |     | foot      | \$1.50      |  | \$0.00             |
| <b>25. Well Repair</b>   |     |           |             |  |                    |
| A1. Additional Copies of the Report Delivered  |     | each      | \$50.00     |  | \$0.00             |
| B1. Repair 2x2 MW pad*   |     | each      | \$50.00     |  | \$0.00             |
| C1. Repair 4x4 MW pad*   |     | each      | \$88.00     |  | \$0.00             |
| D1. Repair well vault*   |     | each      | \$118.00    |  | \$0.00             |
| F1. Replace well cover bolts   |     | each      | \$2.60      |  | \$0.00             |
| G. Replace locking well cap & lock   |     | each      | \$15.00     |  | \$0.00             |
| H1. Replace/Repair stick-up*   |     | each      | \$134.00    |  | \$0.00             |
| II. Convert Flush-mount to Stick-up*   |     | each      | \$150.00    |  | \$0.00             |
| J1. Convert Stick-up to Flush-mount*   |     | each      | \$130.00    |  | \$0.00             |
| K1. Replace missing/illegible well ID plate  |     | each      | \$12.00     |  | \$0.00             |
| <b>Report Prep &amp; Project Management</b>  | 12% | percent   | \$26,161.20 |  | \$3,139.34         |
| <b>TOTAL</b>   |     |           |             |  | <b>\$29,300.54</b> |



DHEC 2495 6-2017 \*The appropriate mobilization cost can be added to complete these tasks, as necessary

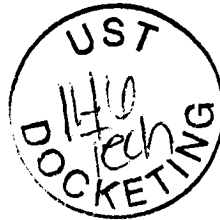


**Geological Resources, Inc.**

July 6, 2018

Mr. Kyle Patterson  
SCDHEC  
UST Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, SC 29201

Re: Granular Activated Carbon Units Maintenance  
378 Truck Stop  
731 Highway 378  
Edgefield, Edgefield County, SC  
UST Permit No. 07960  
GRI Project No. 4422



Dear Mr. Patterson:

This letter is in response to our Thursday June 21, 2018 telephone conversation concerning the maintenance and upkeep of several granular activated carbon (GAC) units currently being used on water supply wells in the area of the above referenced site.

Geological Resources, Inc. (GRI) is the designated contractor of choice for the Wilkerson Fuel Company, which is the responsible party for the release at the subject site. As such, GRI has and wishes to continue conducting continued assessment and remediation activities associated with the release at this site. These activities would include the continued sampling of the water supply wells in the area. However, GRI does not wish to partake in the installation and/or maintenance of the GAC units in service at some of the water supply wells in the area of the subject site. It is our understanding that a SCDHEC State Lead contractor can maintain the GAC units in question. Based on this, GRI requests that any and all GAC installation and/or maintenance activities required by SCDHEC be conducted by the appropriate State Lead contractor.

Please contact me at (704) 845-4010 or [wsb@geologicalresourcesinc.com](mailto:wsb@geologicalresourcesinc.com) if you have any comments or questions regarding this matter.

Sincerely,

W. Scott Ball  
Project Manager

Mr. Frank Wilkerson  
Owner – Wilkerson Fuel Company

cc: file

**3502 Hayes Road • Monroe, North Carolina 28110**  
**Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012**

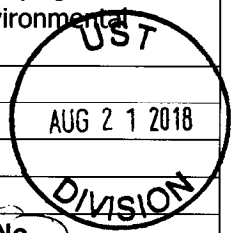


# State Lead Option Permission Form for Site Rehabilitation



**Only complete this form if:** You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to secure on my behalf services of a contractor to install and maintain a Granular Carbon (GAC) Unit, as required. The contractor will be designated as my contractor only for the specified environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account, and I will have no obligation to pay the contractor. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.



|  |                                |                      |           |
|--|--------------------------------|----------------------|-----------|
| UST Permit #   | 07960                          | Release Report Date: | 10/3/1974 |
| Facility Name:   | 378 Truck Stop                 |                      |           |
| Facility Address:                                      | 731 Highway 378, Edgefield, SC |                      |           |
| Facility Phone Number:                                 | No service                     |                      |           |
| Is facility within city limits? (circle yes/no)        | Yes                            | No                   |           |
| Name of nearest intersecting street/road/highway:      | Faulkner Mountain Road         |                      |           |
| Does public water/sewer utility service this facility? | Yes                            | No                   |           |

\*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

|  |               |    |
|--|---------------|----|
| Name:  | Phone Number: |    |
| Were USTs previously removed from the ground at this facility? | Yes           | No |

\*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

|  |                                     |    |
|--|-------------------------------------|----|
| Name: <u>Scott Ball</u>                      | Phone Number: <u>(704) 845-4010</u> |    |
| Is the facility currently leased to someone? | Yes                                 | No |

\*If yes, notify them of the pending work scope, and please provide their name/contact number:

|       |               |
|-------|---------------|
| Name: | Phone Number: |
|-------|---------------|

**\*Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

|  |                                       |                |
|--|---------------------------------------|----------------|
| Name of UST owner/former owner or authorized representative (Print): | <u>W. Scott Ball</u>                  |                |
| Signature of UST owner/former owner or authorized representative:    |                                       | 7-6-18<br>Date |
| Affiliation (if applicable)  | Consultant for Wilkerson Fuel Company |                |
| Signature of Witness   |                                       | 7/6/18<br>Date |

### Contact Info

|                |                                       |                             |
|----------------|---------------------------------------|-----------------------------|
| Phone Numbers: | Home: <u>(704) 845-4010</u>           | Cell: <u>(704) 451-2408</u> |
| Email Address: | <u>wsb@geologicalresourcesinc.com</u> |                             |



FRANK WILKERSON JR  
WILKERSON FUEL CO INC  
PO BOX 2835  
ROCK HILL SC 29730

SEP 05 2018



Re: State Lead Permission Form  
378 Truck Stop, 731 Hwy 378, Edgefield  
UST Permit #07960  
Release reported October 3, 1974  
State Lead Permission Form received August 21, 2018  
Edgefield County

Dear Mr. Wilkerson:

The UST Management Division of the South Carolina Department of Health & Environmental Control (DHEC) is in receipt of a State Lead Permission Form signed by W. Scott Ball.

The release from the three former USTs was reported to DHEC on October 3, 1974 and Wilkerson Fuel Co Inc. was the tank owner at the time. According to our records, W. Scott Ball is an employee of Geological Resources Inc. The UST Management Division is unable to accept the signed State Lead Permission Form sheet at this time. As the tanks were registered in the name of Wilkerson Fuel Co Inc., an authorized representative for Wilkerson Fuel Co Inc. must sign the form. Please complete and return the form to my attention within **15 days from the date of this correspondence.**

On all correspondence concerning this site, please reference UST permit #07960. If you have any questions, please contact me at (803) 898-0643, by fax at (803) 898-0673, or e-mail me at [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,

Debra L. Thoma, Manager  
Corrective Action & Quality Assurance  
UST Management Division  
Bureau of Land & Waste Management

Enc: State Lead Permission Form  
Cc: Technical File



# State Lead Option Permission Form for Site Rehabilitation

**Only complete this form if:** You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to secure on my behalf services of a contractor to install and maintain a Granulated Activated Carbon (GAC) unit, as required. The contractor will be designated as my contractor for only the specified environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.

UST Permit # 07960 Release Report Date: 10/3/1974

Facility Name: 378 Truck Stop

Facility Address: 731 Highway 378, Edgefield, SC

Facility Phone Number: No Service

Is facility within city limits? (circle yes/no) Yes No

Name of nearest intersecting street/road/highway: Faulkner Mountain Rd

Does public water/sewer utility service this facility? Yes No

\*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: Phone Number:

Were USTs previously removed from the ground at this facility? Yes No

\*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

Name: Scott Ball Phone Number: (704) 845-4010

Is the facility currently leased to someone? Yes No

\*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: Phone Number:

**\*Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of UST owner/former owner or authorized representative (Print):

Signature of UST owner/former owner or authorized representative:

Date

Affiliation (if applicable)

Signature of Witness

Date

### Contact Info

Phone Numbers: Home: Cell:

Email Address:



vac - Debra



### State Lead Option Permission Form for Site Rehabilitation

**Only complete this form if:** You are the legal owner of the existing or former underground storage tanks, OR are the legal owner's designated authorized representative.

149  
10/3/18  
10/3/18

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to secure on my behalf services of a contractor to install and maintain a Granulated Activated Carbon (GAC) unit, as required. The contractor will be designated as my contractor for only the specified environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.

|  |                                |                      |           |
|--|--------------------------------|----------------------|-----------|
| UST Permit #   | 07960                          | Release Report Date: | 10/3/1974 |
| Facility Name:   | 378 Truck Stop                 |                      |           |
| Facility Address:                                      | 731 Highway 378, Edgefield, SC |                      |           |
| Facility Phone Number:                                 | No Service                     |                      |           |
| Is facility within city limits? (circle yes/no)        | Yes                            | No                   |           |
| Name of nearest intersecting street/road/highway:      | Faulkner Mountain Rd           |                      |           |
| Does public water/sewer utility service this facility? | Yes                            | No                   |           |

UST  
SEP 10 2018  
PROGRAM

\*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

|       |               |
|-------|---------------|
| Name: | Phone Number: |
|-------|---------------|

|  |     |    |
|--|-----|----|
| Were USTs previously removed from the ground at this facility? | Yes | No |
|--|-----|----|

\*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

|                  |                              |
|------------------|------------------------------|
| Name: Scott Ball | Phone Number: (704) 845-4010 |
|------------------|------------------------------|

|  |     |    |
|--|-----|----|
| Is the facility currently leased to someone? | Yes | No |
|--|-----|----|

\*If yes, notify them of the pending work scope, and please provide their name/contact number:

|       |               |
|-------|---------------|
| Name: | Phone Number: |
|-------|---------------|

**\*Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

|  |  |  |
|--|--|--|
| Name of UST owner/former owner or authorized representative (Print): | WILKERSON Fuel Co. Inc<br>By: Frank M. WilKERSON, Jr |  |
|--|--|--|

|   |                               |                |
|---|-------------------------------|----------------|
| Signature of UST owner/former owner or authorized representative: | <i>Frank M. WilKERSON, Jr</i> | 9-7-18<br>Date |
|---|-------------------------------|----------------|

|                             |  |
|-----------------------------|--|
| Affiliation (if applicable) |  |
|-----------------------------|--|

|                      |  |      |
|----------------------|--|------|
| Signature of Witness |  | Date |
|----------------------|--|------|

#### Contact Info

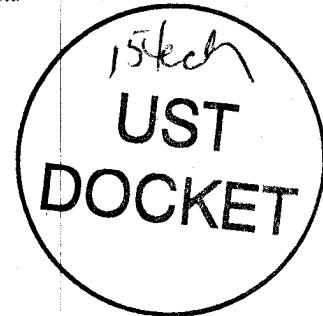
|                |       |       |
|----------------|-------|-------|
| Phone Numbers: | Home: | Cell: |
|----------------|-------|-------|

|                |  |
|----------------|--|
| Email Address: |  |
|----------------|--|



C. Earl Hunter, Commissioner

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



November 12, 2010

HATTIE SCURRY  
730 HWY 378 EAST  
EDGEFIELD, SC 29824

Re: Recent Laboratory Results for Your Supply Well  
378 Truck Stop, 731 Hwy 378 East, Edgefield, SC  
UST Permit # 07960  
Groundwater Laboratory Analysis received November 8, 2010  
Edgefield County

Dear Ms. Scurry:

As you are aware, Environmental Compliance Services, Inc. (ECS) is conducting an environmental assessment at the referenced facility. As a part of that assessment your potable well was sampled and a low level of 1,2 dichloroethane (1,2-DCA) was detected. The Underground Storage Tank (UST) Division, in order to verify the results, sampled your potable well on November 4, 2010. The laboratory results confirm the sample collected from your potable well had a low level detection of 1,2-DCA at 2.6 ug/L, which is below its risk-based screening level (RBSL) of 5 ug/L. There was also a very low detection of tert-Butyl Alcohol (tBA) in the water. This detection was below its action level or RBSL. The RBSL for tBA is 1,400 ug/L. I have attached the analytical report (your well is depicted as WSW-1) and the fact sheet for 1,2-DCA, which was taken from the U.S. Department of Health and Human Services, Public Health Service Agency for Toxic Substances and Disease Registry. There were no fact sheets available for tBA. I spoke with you on the phone today, and stated to you that your drinking water is safe to drink and bathe in at this point; however, as a precautionary measure, the UST Division will direct the installation of a granular activated carbon (GAC) Unit on your well. I have directed ECS to install a GAC Unit on your well next week and to sample the water before and after it goes through the GAC Unit. You relayed to me on the phone that you have been drinking bottled water out of concern, please save your receipts and we will reimburse you for the cost of purchasing the water.

In order to further define the extent of petroleum chemicals of concern (CoC), the UST Division is currently directing ECS to install several additional monitoring wells. Your potable well will continue to be sampled periodically in order to ensure that the GAC Unit is working successfully. As with previous assessment activities, you will not be responsible for any costs associated with rehabilitation activities, and you will be provided a copy of the report of findings.

Your continued cooperation is appreciated. On all correspondence regarding this site, please reference UST permit number 07960. Please feel free to contact me at (803) 896-6633, if you have questions or need additional information.

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Division  
Bureau of Land and Waste Management

- enc: Pace Analytical Laboratory Report received November 8, 2010  
Agency for Toxic Substances and Disease Registry  
Water Supply Well Map and Owner Information
- cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)  
Becky F. Campbell, PhD., Region 1 Health District, Greenwood EQC Office, (w/enc)  
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)  
Nancy Whittle, EQC Administration (w/enc)  
Donna Moye, BLWM (w/enc)  
Jeff DeBassonette, BOW (w/enc)  
Technical File (without enc)



C. Earl Hunter, Commissioner

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

November 12, 2010

ULYSSESS PADGETT  
62 FAULKNER MOUNTAIN ROAD  
EDGEFIELD SC 29824

Re: Recent Laboratory Results for Your Supply Well  
378 Truck Stop, 731 Hwy 378 East, Edgefield, SC  
UST Permit # 07960  
Groundwater Laboratory Analysis received November 8, 2010  
Edgefield County

Dear Mr. Padgett:

As you are aware, Environmental Compliance Services, Inc. (ECS) is conducting an environmental assessment at the referenced facility. As a part of that assessment your potable well was sampled and a low estimated level of Methyl-tert-butyl ether (MtBE) was detected. The Underground Storage Tank (UST) Division, in order to verify the results, sampled your potable well on November 4, 2010. The laboratory results confirm the sample collected from your potable well had a low level estimated detection of MtBE at 0.32 ug/L, which is well below its risk-based screening level (RBSL) of 40 ug/L. I have attached the analytical report (your well is depicted as WSW-13) and the fact sheet for MtBE, which was taken from the U.S. Department of Health and Human Services, Public Health Service Agency for Toxic Substances and Disease Registry. I called you on the phone today to let you know that your drinking water is safe to drink and bathe in; however, no one answered and there was no answering machine on which to leave a message.

In order to further define the extent of petroleum chemicals of concern (CoC), the UST Division is currently directing ECS to install several additional monitoring wells. Your potable well will continue to be sampled periodically in order to monitor petroleum CoC. As with previous assessment activities, you will not be responsible for any costs associated with rehabilitation activities, and you will be provided a copy of the report of findings.

Your continued cooperation is appreciated. On all correspondence regarding this site, please reference UST permit number 07960. Please feel free to contact me at (803) 896-6633, if you have questions or need additional information.

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Division  
Bureau of Land and Waste Management

- enc: Pace Analytical Laboratory Report received November 8, 2010  
Agency for Toxic Substances and Disease Registry  
Water Supply Well Map and Owner Information
- cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)  
Becky F. Campbell, PhD., Region 1 Health District, Greenwood EQC Office, (w/enc)  
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)  
Nancy Whittle, EQC Administration (w/enc)  
Donna Moye, BLWM (w/enc)  
Jeff DeBassonette, BOW (w/enc)  
Technical File (without enc)



C. Earl Hunter, Commissioner

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

November 12, 2010

IDA BRYANT  
54 FAULKNER MOUNTAIN ROAD  
EDGEFIELD SC 29824

Re: Recent Laboratory Results for Your Supply Well  
378 Truck Stop, 731 Hwy 378 East, Edgefield, SC  
UST Permit # 07960  
Groundwater Laboratory Analysis received November 8, 2010  
Edgefield County

Dear Ms. Bryant:

As you are aware, Environmental Compliance Services, Inc. (ECS) is conducting an environmental assessment at the referenced facility. As a part of that assessment your potable well was sampled and a low estimated level of Methyl-tert-butyl ether (MtBE) was detected. The Underground Storage Tank (UST) Division, in order to verify the results, sampled your potable well on November 4, 2010. The laboratory results confirm the sample collected from your potable well had a low level detection of MtBE at 1.3 ug/L, which is well below its risk-based screening level (RBSL) of 40 ug/L. I have attached the analytical report (your well is depicted as WSW-14) and the fact sheet for MtBE, which was taken from the U.S. Department of Health and Human Services, Public Health Service Agency for Toxic Substances and Disease Registry. I called you on the phone today and left a message on your answering machine to let you know that your drinking water is safe to drink and bathe in.

In order to further define the extent of petroleum chemicals of concern (CoC), the UST Division is currently directing ECS to install several additional monitoring wells. Your potable well will continue to be sampled periodically in order to monitor petroleum CoC. As with previous assessment activities, you will not be responsible for any costs associated with rehabilitation activities, and you will be provided a copy of the report of findings.

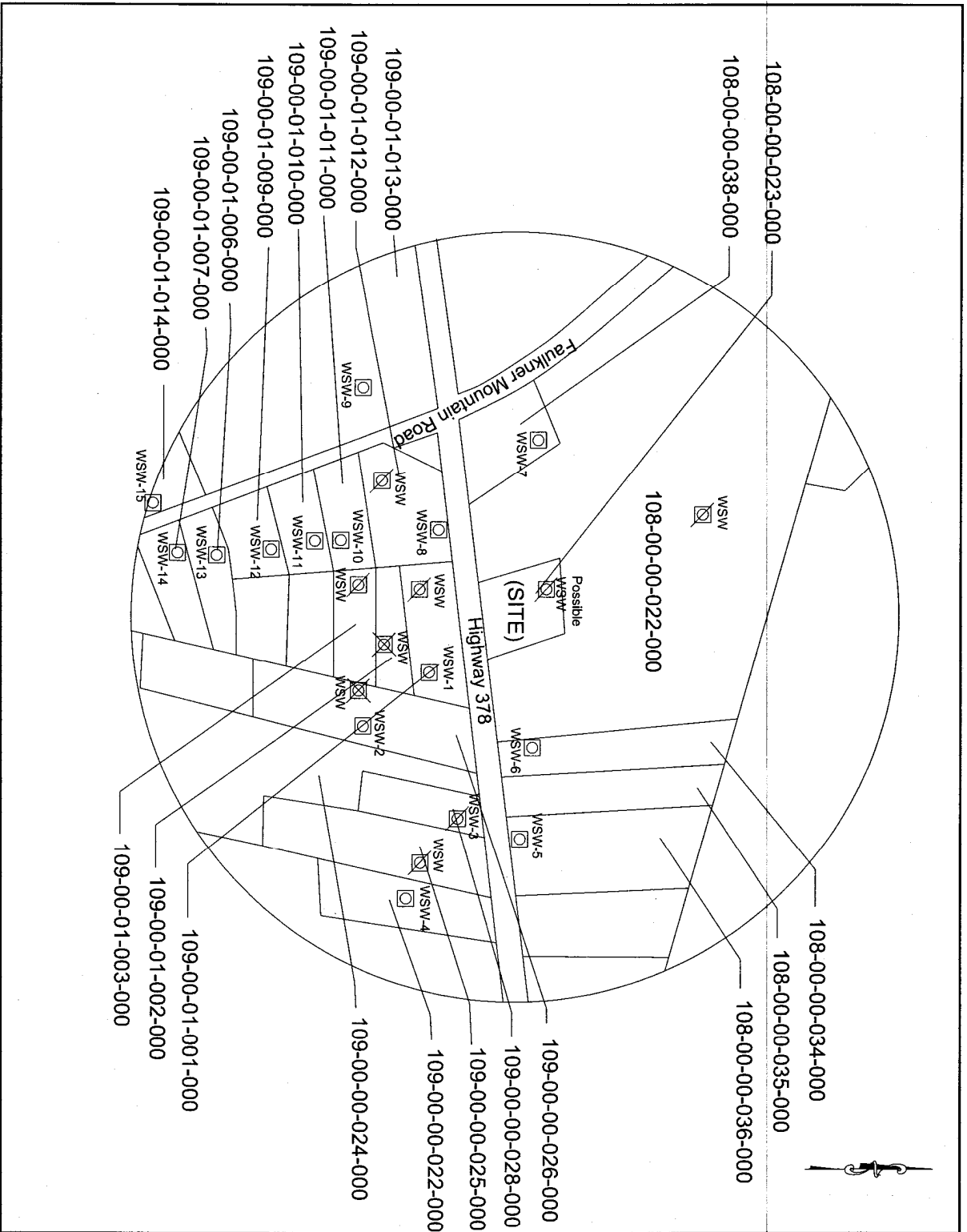
Your continued cooperation is appreciated. On all correspondence regarding this site, please reference UST permit number 07960. Please feel free to contact me at (803) 896-6633, if you have questions or need additional information.

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Assessment Section  
Underground Storage Tank Division  
Bureau of Land and Waste Management

- enc: Pace Analytical Laboratory Report received November 8, 2010  
Agency for Toxic Substances and Disease Registry  
Water Supply Well Map and Owner Information
- cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)  
Becky F. Campbell, PhD., Region 1 Health District, Greenwood EQC Office, (w/enc)  
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)  
Nancy Whittle, EQC Administration (w/enc)  
Donna Moye, BLWM (w/enc)  
Jeff DeBassonette, BOW (w/enc)  
Technical File (without enc)



- Legend**
- 108-00-00-023-000 PARCEL ID
  - PARCEL BOUNDARY
  - ☐ WSW-1 WATER SUPPLY WELL
  - ☒ DISCONNECTED WSW
  - ☒ ABANDONED WSW

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

|  |   |
|--|---|
| <p><b>PROJECT</b><br/>         WHERE BUSINESS AND THE ENVIRONMENT CONVERGE<br/> <b>ecss</b><br/>         1364 SOUTH FRONT BLVD. UNIT F<br/>         CHARLOTTE, NC 28204<br/>         TEL: (704)983-2711 FAX: (704)983-2744</p> |   |
| <p><b>TITLE</b><br/>         378 Truck Stop<br/>         731 Highway 378<br/>         Edgefield, SC</p>  |   |
| <p><b>CLIENT</b><br/>         Wilkerson Fuel Company, Inc.<br/>         Site Vicinity Map</p>  |   |
| <p><b>DATE</b><br/>         6/15/10</p>  | <p><b>SCALE</b><br/>         1"=250'</p>          |
| <p><b>APPROVED BY</b><br/>         [Signature]</p>   | <p><b>CHECKED BY</b><br/>         [Signature]</p> |
| <p><b>DATE</b><br/>         6/15/10</p>  | <p><b>FIGURE NO.</b><br/>         2</p>           |



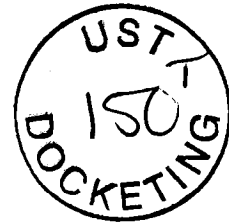
**TABLE 1  
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES <sup>1</sup>  
378 TRUCK STOP**

| Parcel Identification    | Property Owner Name                          | Property Owner Mailing Address                      | Property Address                                    | Water Supply Wells on Property      | Groundwater Monitoring Wells Currently Installed on Property | Notes   |
|--------------------------|--|---|---|-------------------------------------|--|---|
| 108-00-00-023-000        | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824              | 731 Hwy 378 East, Edgefield, SC 29824               | Possible abandoned WSW              | MW-1 through MW-7, TW-1, TW-2                                | SITE  |
| 108-00-00-022-000        | Gail A. & Barbara O. Whitmer                 | 1226 Hwy 378 East, Edgefield, SC 29824              | unknown   | Disconnected WSW                    | MW-8   | Wooded Area around site, has WSW for site.  |
| 108-00-00-034-000        | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801             | 741 Hwy 378 East, Edgefield, SC 29824               | WSW-6                               | -  | WSW-6 tag info: Date: 9/14/00, Depth: 400 ft  |
| 108-00-00-035-000        | Betty O. Doolittle                           | 1184 Hwy 378 East, Edgefield, SC 29824              | unknown   | no WSWs identified                  | -  | -   |
| 108-00-00-036-000        | Horace Baker                                 | 745 Hwy 378 East, Edgefield, SC 29824               | 745 Hwy 378 East, Edgefield, SC 29824               | WSW-5                               | -  | WSW-5 tag info: Date: 6/16/07, Depth: 300 ft  |
| 108-00-00-038-000        | Northside Volunteer Fire Department          | 719 Hwy 378 East, Edgefield, SC 29824               | 719 Hwy 378 East, Edgefield, SC 29824               | WSW-7                               | -  | -   |
| 109-00-00-022-000        | Andrew & Kathalene Stevens                   | 752 Hwy 378 East, Edgefield, SC 29824               | 752 Hwy 378 East, Edgefield, SC 29824               | WSW-4                               | -  | -   |
| 109-00-00-024-000        | Shirley J. Coates                            | 328 Florence Street NW, Aiken, SC 29801             | unknown   | no WSWs identified                  | MW-18  | -   |
| 109-00-00-025-000        | Johnnie Lee Gilliam                          | 5890 Saratoga Drive Crestview, FL 32536             | 758 Hwy 378 East, Edgefield, SC 29824               | Disconnected WSW                    | -  | Abandoned trailer in the woods.   |
| 109-00-00-026-000        | Hattie and Richard Dormeyer Coates           | 736 Hwy 378 East, Edgefield, SC 29824               | 736 Hwy 378 East, Edgefield, SC 29824               | WSW-2 & Abandoned WSW               | MW-17, MW-19, TW-7, TW-8                                     | -   |
| 109-00-00-028-000        | Leroy Diggs                                  | Post Office Box 25664, Los Angeles, CA 90025        | 744 Hwy 378 East, Edgefield, SC 29824               | WSW-3 (Disconnected)                | -  | Not occupied  |
| <b>109-00-01-001-000</b> | <b>Hattie Scurry, etal</b>                   | <b>730 Hwy 378 East, Edgefield, SC 29824</b>        | <b>730 Hwy 378 East, Edgefield, SC 29824</b>        | <b>WSW-1 &amp; Disconnected WSW</b> | <b>MW-11 through MW-13, TW-5</b>                             | <b>WSW-1 tag info: Date: 12/91, Depth: 280 ft</b>   |
| 109-00-01-002-000        | Henry Allen Harling                          | 136 Casbel Ct, Hopkins, SC 29061                    | unknown   | Abandoned WSW                       | MW-14 and MW-15  | Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer. |
| 109-00-01-003-000        | Clifford T. Owdom                            | Post Office Box 606, Saluda, SC 29138               | 732 Hwy 378 East, Edgefield, SC 29824               | Disconnected WSW                    | MW-16 and TW-6   | -   |
| <b>109-00-01-006-000</b> | <b>Ulysess Padgett</b>                       | <b>62 Faulkner Mountain Rd, Edgefield, SC 29824</b> | <b>62 Faulkner Mountain Rd, Edgefield, SC 29824</b> | <b>WSW-13</b>                       | -  | -   |
| <b>109-00-01-007-000</b> | <b>Ida Bryant</b>                            | <b>54 Faulkner Mountain Rd, Edgefield, SC 29824</b> | <b>54 Faulkner Mountain Rd, Edgefield, SC 29824</b> | <b>WSW-14</b>                       | -  | -   |
| 109-00-01-009-000        | Derrick Simpkins                             | 64 Faulkner Mountain Rd, Edgefield, SC 29824        | 64 Faulkner Mountain Rd, Edgefield, SC 29824        | WSW-12                              | -  | -   |
| 109-00-01-010-000        | Mitchell Luther Life Estate                  | 66 Faulkner Mountain Rd, Edgefield, SC 29824        | 66 Faulkner Mountain Rd, Edgefield, SC 29824        | WSW-11                              | -  | -   |
| 109-00-01-011-000        | Bennie Culbreath                             | 68 Faulkner Mountain Rd, Edgefield, SC 29824        | 68 Faulkner Mountain Rd, Edgefield, SC 29824        | WSW-10                              | MW-10 and TW-4   | -   |
| <b>109-00-01-012-000</b> | <b>Sidney L. Gordon</b>                      | <b>724 Hwy 378 East, Edgefield, SC 29824</b>        | <b>722 Hwy 378 East, Edgefield, SC 29824</b>        | <b>WSW-8 &amp; Disconnected WSW</b> | <b>MW-9 and TW-3</b>   | -   |
| 109-00-01-013-000        | Johnnie James & Sophie J. Bowman Life Estate | 71 Faulkner Mountain Rd, Edgefield, SC 29824        | 71 Faulkner Mountain Rd, Edgefield, SC 29824        | WSW-9                               | -  | -   |
| 109-00-01-014-000        | Johnnie James, Jr. and Joan P. Bowman        | 57 Faulkner Mountain Rd, Edgefield, SC 29824        | 57 Faulkner Mountain Rd, Edgefield, SC 29824        | WSW-15                              | -  | -   |

Notes:  
1. Adjacent/adjoining properties are keyed into **Figure 2**.



NOV 09 2018



RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

**Re: Site Specific Work Plan Request for GAC Change and Groundwater Sample Collection**

378 Truck Stop, 731 Hwy 378, Edgefield, SC 29824  
UST Permit #07960  
Release reported October 3, 1974  
GAC Change and Sampling Report received July 7, 2018  
Edgefield County

Dear Mr. Lowder:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report. The report indicates the presence of chemicals of concern (CoCs) in the groundwater.

To ensure a clean source of drinking water, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Granular Activated Carbon (GAC) Unit sampling and filter change event as outlined in the current revision of the UST Quality Assurance Program Plan (QAPP) is necessary. This scope of work should be conducted on the Scurry Hattie et. al. water supply well located at 730 Hwy 378 E and the Gordon Sidney water supply well located at 724 Hwy 378 E, in accordance with the UST QAPP and in compliance with all applicable regulations. Pre-and post- GAC samples should be collected prior to the filter change and analyzed for BTEX, Mtbe, Naphthalene, 1,2-DCA, the Oxygenates, Ethanol, and EDB. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. A copy of the DHEC QAPP for the UST Management Division is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance>.

**Please complete and submit the Site-Specific Work Plan and Cost Proposal to the UST Division within fifteen (15) days of the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from DHEC must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #07960. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-7705, by fax at (803) 898-0673, or by e-mail to wykelijm@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Matt Wykel". The signature is written in a cursive, slightly slanted style.

Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Site Information

cc: Adam Looper, UST Management Division  
Technical File (w/out enclosure)



NOV 14 2018



FRANK WILKERSON  
WILKERSON FUEL CO, INC  
PO BOX 2835  
ROCK HILL SC 29732

Re: **Monitoring Well Installation SSWP Approval and Notice to Proceed**  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit # 07960; CA # 57384; MWA #UMW-27273  
Release Reported October 3, 1974  
Site-Specific Work Plan and cost proposal received August 21, 2018  
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Geological Resources, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Geological Resources' approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

The assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. Cost agreement # 57384 has been approved for the amount shown on the enclosed cost agreement form.

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The Assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within ninety (90) days of the date of this correspondence.** The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Geological Resources can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Mr. Wilkerson

Page 2

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #07960. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0599, fax me at (803) 898-0673, or e-mail me at [martinsr@dhec.sc.gov](mailto:martinsr@dhec.sc.gov).

Sincerely,



Steven Martin

Geologist/Hydrogeologist  
Assessment & Unregulated Petroleum Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)  
Monitoring Well Approval (MWA)

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110 (w/enc.)  
Technical file (with enc.)



## Monitoring Well Approval

**Approval is hereby granted to:** Geological Resources, Inc.  
**(on behalf of):** Wilkerson Fuel  
**Facility:** 378 Truck Stop, 731 Hwy 378, Edgefield, SC  
**UST Permit Number:** 07960  
**County:** Edgefield

This approval is for the installation of two deep groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

**Please note that R.61-71 requires the following:**

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Steven Martin the project manager (tel: (803) 898-0599 or e-mail: martinsr@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

**Date of Issuance: November 11, 2018**

**Approval #: UMW-27273**

A handwritten signature in black ink, appearing to read "Steven Martin".

Steven Martin  
Geologist/Hydrogeologist  
Assessment & Unregulated Petroleum Section  
UST Management Division  
Bureau of Land and Waste Management

**Approved Cost Agreement**

**57384**

Facility: 07960 378 TRUCK STOP

JOHNSOAL

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>   | <u>Qty / Pct</u>               | <u>Unit Price</u>                | <u>Amount</u>              |
|-----------------------------------|-------------------|---|--------------------------------|----------------------------------|----------------------------|
| 01 PLAN                           |                   | A1 SITE SPECIFIC WORK PLAN  | 1.0000                         | \$150.000                        | 150.00                     |
| 04 MOB/DEMOB                      |                   | A1 EQUIPMENT<br>B1 PERSONNEL  | 1.0000<br>5.0000               | \$1,020.000<br>\$423.000         | 1,020.00<br>2,115.00       |
| 06 SOIL BORINGS (DRILLED)         |                   | AA SOIL BORING/FLD SCR. STANDARD  | 100.0000                       | \$15.000                         | 1,500.00                   |
| 08 ABANDONMENT                    |                   | A1 ABANDONMENT 2" DIA OR LESS   | 100.0000                       | \$3.100                          | 310.00                     |
| 09 WELL INSTALLATION              |                   | CC TELESCOPING  | 160.0000                       | \$50.000                         | 8,000.00                   |
| 10 SAMPLE COLLECTION              |                   | A1 GROUNDWATER (PURGE)<br>D1 GROUNDWATER NO PURGE/DUPLICATE<br>H1 FIELD BLANK | 42.0000<br>3.0000<br>1.0000    | \$60.000<br>\$28.000<br>\$24.600 | 2,520.00<br>84.00<br>24.60 |
| 11 ANALYSES                       |                   |   |                                |                                  |                            |
|                                   | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B   | 47.0000                        | \$122.000                        | 5,734.00                   |
|                                   | SOIL SOIL         | F1 EDB BY 8011  | 46.0000                        | \$45.200                         | 2,079.20                   |
|                                   |                   | Q1 BTEX+NAPTH   | 10.0000                        | \$64.000                         | 640.00                     |
|                                   |                   | R1 SOIL PAH'S   | 10.0000                        | \$64.040                         | 640.40                     |
|                                   |                   | S1 8 RCRA METALS  | 10.0000                        | \$56.400                         | 564.00                     |
| 16 SUBSEQUENT SURVEY              |                   | A1 SUBSEQUENT SURVEY  | 1.0000                         | \$260.000                        | 260.00                     |
| 17 DISPOSAL                       |                   | AA WASTEWATER<br>C1 SOIL TREATMENT DISPOSAL<br>D1 DRILLING FLUIDS             | 350.0000<br>4.0000<br>200.0000 | \$0.560<br>\$60.000<br>\$0.420   | 196.00<br>240.00<br>84.00  |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PRT REPORT PREPARATION  | 0.1200                         | \$27,011.200                     | 3,241.34                   |
| 25 WELL REPAIR                    |                   | A1 ADDITIONAL COPIES OF REPORT  | 17.0000                        | \$50.000                         | 850.00                     |
| <b>Total Amount</b>               |                   |   |                                |                                  | <b>30,252.54</b>           |

# Emerald, Inc.

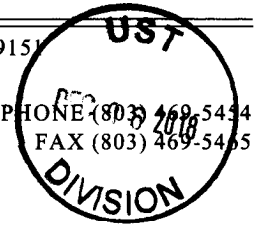
CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

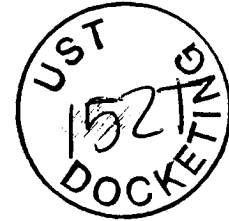
WEBSITE:  
www.emeraldinc-us.com

TELEPHONE (803) 469-5454  
FAX (803) 469-5455

December 3, 2018



Mr. Matt Wykel, Hydrogeologist  
Corrective Action and Field Support Section  
Underground Storage Tank Management  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201



Site Specific Work Plan  
378 Truck Stop  
731 Highway 378  
Edgefield, South Carolina  
SCDHEC Site ID #07960



Mr. Wykel,

Please find the attached Site Specific Work Plan, proposed costs and example chain of custody for Granular Activated Carbon (GAC) filter change and sampling. These GACs are associated with the Scurry residence located at 730 Highway 378 East and Gordon residence located at 724 Highway 378 East in Edgefield, SC. If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,

A handwritten signature in black ink, appearing to read "William C. McClary".

William C. McClary, P.G.  
Project Manager

#### Attachments

- Appendix A - Site Specific Work Plan
- Appendix B - Example Chain of Custody
- Appendix C - Proposed Costs



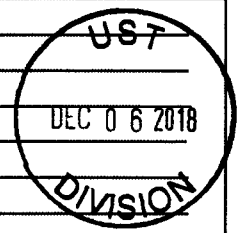
Appendix A  
Site Specific Work Plan



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Matt Wykel Hydrogeologist (SCDHEC Project Manager)  
 From: Chad McClary, P.G. (Contractor Project Manager)  
 Contractor: Emerald, Inc. UST Contractor Certification Number: 67

Facility Name: 378 Truck Stop UST Permit #: 07960  
 Facility Address: 731 Highway 378, Edgefield, SC  
 Responsible Party: \_\_\_\_\_ Phone: \_\_\_\_\_  
 RP Address: \_\_\_\_\_  
 Property Owner (if different): \_\_\_\_\_  
 Property Owner Address: \_\_\_\_\_  
 Current Use of Property: \_\_\_\_\_



**Scope of Work** (Please check all that apply)

- IGWA                       Tier II                       Groundwater Sampling                       GAC  
 Tier I                       Monitoring Well Installation                       Other \_\_\_\_\_

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B)                       Lead                       BOD                       Methane  
 Oxygenates (8260B)                       8 RCRA Metals                       Nitrate                       Ethanol  
 EDB (8011)                       TPH                       Sulfate                       Dissolved Iron  
 PAH (8270D)                       pH                       Other \_\_\_\_\_

Drinking Water Supply Wells:

- BTEXNMDCA (524.2)                       Mercury (200.8 245.1 or 245.2)                       EDB (504.1)  
 Oxygenates & Ethanol (8260B)                       RCRA Metals (200.8)

Soil:

- BTEXNM                       Lead                       RCRA Metals                       TPH-DRO (3550B/8015B)                       Grain Size  
 PAH                       Oil & Grease (9071)                       TPH-GRO (5030B/8015B)                       TOC

Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil                      4 \_\_\_\_\_ Water Supply Wells                      \_\_\_\_\_ Air                      1 \_\_\_\_\_ Field Blank  
 \_\_\_\_\_ Monitoring Wells                      \_\_\_\_\_ Surface Water                      1 \_\_\_\_\_ Duplicate                      1 \_\_\_\_\_ Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Comments, if warranted:

\_\_\_\_\_

UST Permit #: 07960 Facility Name: 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 15 Field Work Completion: 30  
Report Submittal: 35 # of Copies Provided to Property Owners: 1

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: \_\_\_\_\_ Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

The subject site (378 Truck Stop) is located at 731 Highway 378 outside Edgefield, SC. Two nearby water supply wells (Scurry and Gordon) have been impacted by petroleum contamination. Each water supply well (WSW) has been attached to granular activated carbon (GAC) filters to aid in removal of petroleum contaminants. Prior to conducting a carbon change, Emerald, Inc. will collect samples from the Scurry and Gordon WSWs before filtering (Pre GAC) and after passing through the filter (Post GAC). The duplicate sample will be collected from the Scurry Pre-GAC sampling port. This work will be conducted under Solicitation IFB-5400011271-4/28/16-EMW and PO #4600491068. The samples will be collected after opening the spigot for approximately 10 minutes or until the well pump turns on. Samples will be collected by allowing the well water to pour directly into laboratory supplied sampling containers.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

\_\_\_\_ Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

\_\_\_\_ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

\_\_\_\_ Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

Appendix B  
Example Chain of Custody



Appendix C  
Proposed Costs



**ASSESSMENT COMPONENT INVOICE  
SOUTH CAROLINA**

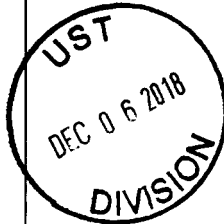
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
August 16, 2016

**Facility Name:** 378 Truck Stop

**UST Permit #:** 07960

**Cost Agreement #:** \_\_\_\_\_

| ITEM  | QUANTITY | UNIT | UNIT PRICE | TOTAL             |
|---|----------|------|------------|-------------------|
| <b>1. Plan Preparation</b>  |          |      |            |                   |
| A1. Site-specific Work Plan   | 1        | each | \$125.00   | \$125.00          |
| <b>4. Mob/Demob</b>   |          |      |            |                   |
| B1. Personnel   | 1        | each | \$150.00   | \$150.00          |
| <b>18. Miscellaneous (attach receipts)</b>  |          |      |            |                   |
| Service charge to remove and replace carbon/gravel filter in large operating units            |          | each | \$1,500.00 | \$0.00            |
| Removal, cleaning, refurbishment and storage - of large capacity GAC units                    |          | each | \$1,000.00 | \$0.00            |
| Service calls to reset, repair, other service of GAC  |          | each | \$45.00    | \$0.00            |
| Lock assemblage for existing GAC housing to include lock and all necessary hardware and labor |          | each | \$10.00    | \$0.00            |
| Sample collection measurements to include, duplicate, field/trip blanks are included          | 4        | each | \$25.00    | \$100.00          |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b>        |          |      |            |                   |
| A1. New GAC System Installation*  |          | each | \$2,400.00 | \$0.00            |
| BB. Refurbished GAC Sys. Install*   |          | each | \$1,500.00 | \$0.00            |
| C1. Filter replacement/removal*   | 2        | each | \$550.00   | \$1,100.00        |
| DD. GAC System removal, cleaning, & refurbishment*  |          | each | \$500.00   | \$0.00            |
| E1. GAC System housing*   |          | each | \$250.00   | \$0.00            |
| F. In-line particulate filter   |          | each | \$175.00   | \$0.00            |
| G1. Additional piping & fittings  |          | foot | \$1.50     | \$0.00            |
| <b>TOTAL</b>  |          |      |            | <b>\$1,475.00</b> |





Healthy People. Healthy Communities.

RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

JAN 03 2019

**Re: Notice to Proceed-GAC Change and Groundwater Sample Collection**

UST Permit #07960; Emerald CA#58656 ;Pace CA #58657  
FB-5400011271-4/28/16-EMW; PO #4600603935  
Site-Specific Work Plan received December 6, 2018  
Edgefield County



Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, collection of pre- and post- GAC unit groundwater samples has been approved for the Scurry residence located at 730 Hwy 378 East and Gordon residence located at 824 Highway 378 East. The pre- and post- GAC unit groundwater samples should be collected and submitted to Pace Analytical Services for analysis.

This facility has been assigned individual Cost Agreement (CA) numbers as listed above. Please reference the CA #58656 and PO #4600603935 on the invoice submitted for payment. Emerald, Inc. should complete the work in accordance with the contract specifications and established schedule. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulation. A GAC Unit Installation and Maintenance record should be submitted within **thirty (30) days** from the date of Notice to Proceed.

On all correspondence or inquiries regarding this directive, please reference UST Permit #07960, CA #58656, and CA #58657. If you have any questions or need further assistance, please contact me at (803) 898-7705 or by email at [wykeljm@dhec.sc.gov](mailto:wykeljm@dhec.sc.gov).

Sincerely,

A handwritten signature in cursive that reads "Matt Wykel".

Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Adam Looper, UST Management Division (w/o enc.)  
Pace Analytical Services, 9800 Kinsey Avenue, Ste 100, Huntersville NC 28078(w/enc.)  
Technical File (w/enc.)



**Approved Cost Agreement****58656**

Facility: 07960 378 TRUCK STOP

NGUYENS

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>                       | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u>   |
|---------------------------|-------------------|---|------------------|-------------------|-----------------|
| 01 PLAN                   |                   | A1 SITE SPECIFIC WORK PLAN                    | 1.0000           | \$125.000         | 125.00          |
| 04 MOB/DEMOB              |                   | B1 PERSONNEL                                  | 1.0000           | \$150.000         | 150.00          |
| 18 MISCELLANEOUS          |                   | SAMPLE COLLECTION INCLUDING DUPLICATE, FIELD/ | 4.0000           | \$30.000          | 120.00          |
| 24 GAC SYSTEM             |                   | C1 FILTER REPLACEMENT/REMOVAL                 | 2.0000           | \$550.000         | 1,100.00        |
| <b>Total Amount</b>       |                   |   |                  |                   | <b>1,495.00</b> |

**Approved Cost Agreement****58657**

Facility: 07960 378 TRUCK STOP

NGUYENS

PO Number:

| <u>Task / Description</u> | <u>Categories</u>    | <u>Item Description</u>          | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|----------------------|----------------------------------|------------------|-------------------|---------------|
| 11 ANALYSES               |                      |                                  |                  |                   |               |
|                           | GW GROUNDWATER       | D1 PAH'S                         | 7.0000           | \$34.000          | 238.00        |
|                           | WATER DRINKING WATER | L BTEXNM+1,2 DCA (524.2)         | 7.0000           | \$36.000          | 252.00        |
|                           |                      | M 7-OXYGENATES & ETHANOL (8260B) | 7.0000           | \$13.000          | 91.00         |
|                           |                      | N EDB (504.1)                    | 7.0000           | \$18.000          | 126.00        |
|                           |                      | <b>Total Amount</b>              |                  |                   | <b>707.00</b> |

# GAC Unit Installation and Maintenance

Date: 1/18/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank # \_\_\_\_\_  
Controller # \_\_\_\_\_



## NEW INSTALLATION

Date Installation Completed: \_\_\_\_\_

- Attachments Required
- schematic of system as installed
  - copy of analytical data for pre and post GAC samples
  - calculations of filter change
  - calculations of breakthrough

## MAINTENANCE AND SERVICE

### FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit                      \_\_\_\_\_ In Need of Repair\*                      X Good

Condition of GAC Housing                      \_\_\_\_\_ In Need of Repair\*                      X Good

\*Repairs Needed:

### SERVICE/REPAIR CALL

Service or Repair Provided:

### SAMPLE COLLECTION

- Pre-GAC
- Pre-GAC DUP

- Mid-GAC
- Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #58656).

# GAC Unit Installation and Maintenance

Date: 1/18/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank # \_\_\_\_\_  
Controller # \_\_\_\_\_

## NEW INSTALLATION

Date Installation Completed: \_\_\_\_\_

- Attachments Required
- schematic of system as installed
  - copy of analytical data for pre and post GAC samples
  - calculations of filter change
  - calculations of breakthrough

## MAINTENANCE AND SERVICE

### FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit                      \_\_\_\_\_ In Need of Repair\*                      X Good

Condition of GAC Housing                      \_\_\_\_\_ In Need of Repair\*                      X Good

\*Repairs Needed:

### SERVICE/REPAIR CALL

Service or Repair Provided:

### SAMPLE COLLECTION

Pre-GAC  
 Pre-GAC DUP

Mid-GAC  
 Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated May 18, 2018. Please find the attached Pace Chain of Custody Record. (Pace CA #58656).

# GAC Maintenance Report

Permit # 07960  
Emerald Job # 245

| Address   | Serial # | Model # | Date Serviced | Condition of Unit  | Samples Collected  |
|---|----------|---------|---------------|--|--|
| 730 Hwy 378 East, Edgefield, SC<br>Scurry Residence |          |         | 1/18/19       | Needs Repairs <input type="checkbox"/><br>Good <input checked="" type="checkbox"/> | Pre-GAC <input checked="" type="checkbox"/><br>Dup-GAC <input checked="" type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input checked="" type="checkbox"/> |
| 724 Hwy 378 East, Edgefield, SC<br>Gordon Residence |          |         | 1/18/19       | Needs Repairs <input type="checkbox"/><br>Good <input checked="" type="checkbox"/> | Pre-GAC <input checked="" type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input checked="" type="checkbox"/>            |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/>                                  |

**Notes:**

Filter Disposal Method: Landfill

Service/Repairs:

**Comments:** Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

**Pace Analytical**  
**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here**

**Company:** Emerald Inc  
**Address:** Po Box 3050 Sumter, SC 29151  
**Report To:** R. Lowder  
**Copy To:**  
**Customer Project Name/Number:** 378 Truck Stop  
**State:** SC **County/City:** Sumter **Time Zone Collected:** [ ] PT [ ] MT [ ] CT [ ] ET  
**Phone:** 803-469-5454 **Site/Facility ID #:** 07960  
**Email:** [ ] Yes [ ] No  
**Compliance Monitoring?**  
**Collected By (print):** [ ] Yes [ ] No  
**Purchase Order #:** [ ] Yes [ ] No  
**Quote #:** [ ] Yes [ ] No  
**Collected By (signature):** [ ] Yes [ ] No  
**Turnaround Date Required:** [ ] Yes [ ] No  
**Immediately Packed on Ice:**  
**Sample Disposal:** [ ] Same Day [ ] Next Day  
**Rush:** [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
**Field Filtered (if applicable):** [ ] Yes [ ] No  
**Analysis:**

**ALL SHADED AREAS are for LAB USE ONLY**

Container Preservative Type \*\* Lab Project Manager:  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) |      | Composite End |      | Res Cl | # of Ctns |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|--------|-----------|
|                    |          |             | Date                           | Time | Date          | Time |        |           |
| 07960 Gordon Pre   | GW       | 6           |                                |      | 1-18-19       | 1100 | 9      | X         |
| Gordon Post        |          |             |                                |      |               | 1105 | 9      | X         |
| Swurry Pre         |          |             |                                |      |               | 1200 | 9      | X         |
| Swurry Pre DUP     |          |             |                                |      |               | 1203 | 9      | X         |
| Swurry POST        |          |             |                                |      |               | 1210 | 9      | X         |
| Field Blank        |          |             |                                |      |               | 1215 | 9      | X         |
| 07960 Trip Blank   | GW       | 6           |                                |      | 1-18-19       | -    | 4      | X         |

**Analyses**

**Lab Profile/Line:**

**Lab Sample Receipt Checklist:**

|                              |   |   |    |
|------------------------------|---|---|----|
| Custody Seals Present/Intact | Y | N | NA |
| Custody Signatures Present   | Y | N | NA |
| Collector Signatures Present | Y | N | NA |
| Bottles Intact               | Y | N | NA |
| Correct Bottles              | Y | N | NA |
| Sufficient Volume            | Y | N | NA |
| Samples Received on Ice      | Y | N | NA |
| VOA - Headspace Acceptable   | Y | N | NA |
| USDA Regulated Soils         | Y | N | NA |
| Samples in Holding Time      | Y | N | NA |
| Residual Chlorine Present    | Y | N | NA |
| Cl Strips:                   |   |   |    |
| Sample pH Acceptable         | Y | N | NA |
| pH Strips:                   |   |   |    |
| Sulfide Present              | Y | N | NA |
| Lead Acetate Strips:         |   |   |    |

**LAB USE ONLY:**  
 Lab Sample # / Comments:

**Customer Remarks / Special Conditions / Possible Hazards:**

Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: Lab Tracking #: 2341566  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 SHORI HOLDS PRESENT (<72 hours): Y N N/A

**Relinquished by/Company: (Signature)** Date/Time: Received by/Company: (Signature) Date/Time:  
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:  
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

**Lab Sample Temperature Info:**  
 Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ oC  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ oC  
 Cooler 1 Corrected Temp: \_\_\_\_\_ oC  
 Comments:

**Lab Use Only Section:**  
 Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_

**Non Conformance(s):** YES / NO  
 Page: \_\_\_\_\_ of: \_\_\_\_\_



## Instructions for completing Chain of Custody (COC)

1. Complete all client information at the top left of the sheet: Company name, address, phone/fax, contact (the person to contact if there are questions, and who will receive the final report), e-mail address (if available), PO#, Project Name and/or Project Number as you would like it to appear on the report.
2. Billing Information: name and address of the person who is receiving the invoice
3. Site Collection Information: A separate COC must be filled out for each day of sample collection. Record the 2 letter postal code for the US state where samples were collected as well as the county/city and time zone.
4. Regulatory Agency: List the program that is guiding the work to ensure proper regulations are followed in the customer remarks section.
5. Quote #: should be completed if a quote was provided by Pace Analytical.
6. Mark if the sample was filtered in the in the field by marking Y or N in the "Field Filtered" box.
7. The sampler should print and sign their name in the spaces provided.
8. Complete a sample description in the CUSTOMER SAMPLE ID section as you would like it to appear on the laboratory report. Include: sample matrix, sample type (G (grab) or C (composite)). When collecting a composite, the start time and end time should be documented in the respective boxes. Also record the sample temp at collection (if required by state), the total number of containers, and preservative used.
9. Requested Analysis: List required analysis and methods on the lines provided and place a check mark in the column for the samples requiring the analysis. Additional comments should be referenced in the Customer Remarks section or included in attachments for extended lists of parameters.
10. Relinquishing custody of the samples: sign relinquished by, date and time, and include you affiliation.

**\*Important Note:**

**Standard Turnaround Time is 2 Weeks/10 business days.** Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

**Special Project Requirements** such as Low Level Detection or level of QC reported must be included on the chain of custody in the Customer Remarks box.

**\*If you have additional questions about how to complete the Chain of Custody (COC) please contact a Pace Project Manager\***



Pace Analytical Services, LLC  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

January 29, 2019



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960/57353  
Pace Project No.: 92414687

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on January 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC





## CERTIFICATIONS

Project 378 TRUCK STOP 07960/57353  
Pace Project No 92414687

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification # 41320  
Colorado Certification FL NELAC Reciprocity  
Connecticut Certification # PH-0216  
Florida Certification # E83079  
Georgia Certification # 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification FL NELAC Reciprocity  
Illinois Certification # 200068  
Indiana Certification FL NELAC Reciprocity  
Kansas Certification # E-10383  
Kentucky Certification #. 90050  
Louisiana Certification # FL NELAC Reciprocity  
Louisiana Environmental Certificate # 05007  
Maryland Certification #346  
Michigan Certification # 9911  
Mississippi Certification FL NELAC Reciprocity  
Missouri Certification #. 236  
Montana Certification # Cert 0074

Nebraska Certification. NE-OS-28-14  
New Hampshire Certification # 2958  
New Jersey Certification # FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate # 667  
North Carolina Certification #: 12710  
North Dakota Certification # R-216  
Oklahoma Certification # D9947  
Pennsylvania Certification # 68-00547  
Puerto Rico Certification # FL01264  
South Carolina Certification #96042001  
Tennessee Certification # TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification FL NELAC Reciprocity  
Virginia Environmental Certification # 460165  
West Virginia Certification # 9962C  
Wisconsin Certification # 399079670  
Wyoming (EPA Region 8) FL NELAC Reciprocity

---

### Charlotte Certification IDs

9800 Kinsey Ave Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification # 37706  
North Carolina Field Services Certification # 5342  
North Carolina Wastewater Certification # 12

South Carolina Certification # 99006001  
Florida/NELAP Certification # E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification # 460221

---

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960/57353  
Pace Project No 92414687

| Lab ID      | Sample ID            | Matrix | Date Collected | Date Received  |
|-------------|----------------------|--------|----------------|----------------|
| 92414687001 | 07960 GORDON PRE     | Water  | 01/18/19 11 00 | 01/19/19 09 00 |
| 92414687002 | 07960 GORDON POST    | Water  | 01/18/19 11 05 | 01/19/19 09 00 |
| 92414687003 | 07960 SCURRY PRE     | Water  | 01/18/19 12.00 | 01/19/19 09 00 |
| 92414687004 | 07960 SCURRY PRE DUP | Water  | 01/18/19 12 03 | 01/19/19 09 00 |
| 92414687005 | 07960 SCURRY POST    | Water  | 01/18/19 12 10 | 01/19/19 09 00 |
| 92414687006 | 07960 FIELD BLANK    | Water  | 01/18/19 12 15 | 01/19/19 09 00 |
| 92414687007 | 07960 TRIP BLANK     | Water  | 01/18/19 00 00 | 01/19/19 09 00 |

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Lab ID      | Sample ID            | Method    | Analysts | Analytes Reported | Laboratory |
|-------------|----------------------|-----------|----------|-------------------|------------|
| 92414687001 | 07960 GORDON PRE     | EPA 504.1 | BAJ      | 2                 | PASI-C     |
|             |                      | EPA 524.2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | SAS      | 11                | PASI-C     |
| 92414687002 | 07960 GORDON POST    | EPA 504 1 | BAJ      | 2                 | PASI-C     |
|             |                      | EPA 524 2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | SAS      | 11                | PASI-C     |
| 92414687003 | 07960 SCURRY PRE     | EPA 504.1 | BAJ      | 2                 | PASI-C     |
|             |                      | EPA 524 2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | SAS      | 11                | PASI-C     |
| 92414687004 | 07960 SCURRY PRE DUP | EPA 504 1 | BAJ      | 2                 | PASI-C     |
|             |                      | EPA 524 2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | SAS      | 11                | PASI-C     |
| 92414687005 | 07960 SCURRY POST    | EPA 504 1 | BAJ      | 2                 | PASI-C     |
|             |                      | EPA 524 2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | SAS      | 11                | PASI-C     |
| 92414687006 | 07960 FIELD BLANK    | EPA 504 1 | BAJ      | 2                 | PASI-C     |
|             |                      | EPA 524 2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | NSCQ     | 11                | PASI-C     |
| 92414687007 | 07960 TRIP BLANK     | EPA 524 2 | BCH      | 10                | PASI-O     |
|             |                      | EPA 8260B | NSCQ     | 11                | PASI-C     |

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**ANALYTICAL RESULTS**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Sample: 07960 GORDON PRE Lab ID: 92414687001 Collected 01/18/19 11 00 Received: 01/19/19 09 00 Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1 Preparation Method EPA 504 1                         |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0 020 | 1  | 01/22/19 10:41 | 01/22/19 19 29 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 93      | %     | 70-130       |       | 1  | 01/22/19 10 41 | 01/22/19 19 29 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524 2   |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 16 41 | 71-43-2    |      |
| 1,2-Dichloroethane   | 2.1     | ug/L  | 0.50         | 0 25  | 1  |                | 01/23/19 16 41 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 01/23/19 16 41 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 16 41 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 01/23/19 16 41 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 01/23/19 16 41 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0 25  | 1  |                | 01/23/19 16 41 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 93      | %     | 70-130       |       | 1  |                | 01/23/19 16.41 | 460-00-4   |      |
| Toluene-d8 (S)   | 97      | %     | 70-130       |       | 1  |                | 01/23/19 16 41 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |       | 1  |                | 01/23/19 16.41 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260B   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 53 9  | 1  |                | 01/23/19 16:08 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3 5   | 1  |                | 01/23/19 16:08 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 62.0  | 1  |                | 01/23/19 16:08 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 27 3  | 1  |                | 01/23/19 16:08 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 24.7  | 1  |                | 01/23/19 16.08 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0 22  | 1  |                | 01/23/19 16 08 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 98.8  | 1  |                | 01/23/19 16.08 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3 7   | 1  |                | 01/23/19 16 08 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 96      | %     | 70-130       |       | 1  |                | 01/23/19 16 08 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 86      | %     | 70-130       |       | 1  |                | 01/23/19 16 08 | 17060-07-0 |      |
| Toluene-d8 (S)   | 103     | %     | 70-130       |       | 1  |                | 01/23/19 16 08 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Sample: 07960 GORDON POST Lab ID: 92414687002 Collected 01/18/19 11 05 Received 01/19/19 09 00 Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1 Preparation Method EPA 504 1                         |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0.020 | 1  | 01/22/19 10 41 | 01/22/19 20 08 | 106-93-4   |      |
| <i>Surrogates</i>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 97      | %     | 70-130       |       | 1  | 01/22/19 10 41 | 01/22/19 20 08 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 17 05 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 17 05 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 17 05 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 17 05 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 01/23/19 17 05 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0 50         | 0.25  | 1  |                | 01/23/19 17 05 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/23/19 17:05 | 1330-20-7  |      |
| <i>Surrogates</i>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 92      | %     | 70-130       |       | 1  |                | 01/23/19 17 05 | 460-00-4   | P4   |
| Toluene-d8 (S)   | 98      | %     | 70-130       |       | 1  |                | 01/23/19 17 05 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 109     | %     | 70-130       |       | 1  |                | 01/23/19 17 05 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260B   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 53 9  | 1  |                | 01/22/19 12 46 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 3 5   | 1  |                | 01/22/19 12 46 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 62.0  | 1  |                | 01/22/19 12 46 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 27.3  | 1  |                | 01/22/19 12 46 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 24.7  | 1  |                | 01/22/19 12 46 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0 22  | 1  |                | 01/22/19 12 46 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 98 8  | 1  |                | 01/22/19 12 46 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10 0         | 3.7   | 1  |                | 01/22/19 12 46 | 637-92-3   |      |
| <i>Surrogates</i>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 98      | %     | 70-130       |       | 1  |                | 01/22/19 12 46 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 87      | %     | 70-130       |       | 1  |                | 01/22/19 12 46 | 17060-07-0 |      |
| Toluene-d8 (S)   | 104     | %     | 70-130       |       | 1  |                | 01/22/19 12 46 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Sample: 07960 SCURRY PRE Lab ID: 92414687003 Collected: 01/18/19 12 00 Received: 01/19/19 09 00 Matrix Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method EPA 504 1 Preparation Method EPA 504.1                         |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0 020        | 0 020 | 1  | 01/22/19 10 41 | 01/22/19 21 06 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 94      | %     | 70-130       |       | 1  | 01/22/19 10 41 | 01/22/19 21:06 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 71-43-2    |      |
| 1,2-Dichloroethane   | 3.7     | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 17.29 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 94      | %     | 70-130       |       | 1  |                | 01/23/19 17.29 | 460-00-4   |      |
| Toluene-d8 (S)   | 96      | %     | 70-130       |       | 1  |                | 01/23/19 17.29 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 107     | %     | 70-130       |       | 1  |                | 01/23/19 17.29 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260B   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | 72.1J   | ug/L  | 100          | 53.9  | 1  |                | 01/22/19 13:03 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10 0         | 3 5   | 1  |                | 01/22/19 13:03 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 62.0  | 1  |                | 01/22/19 13:03 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 27.3  | 1  |                | 01/22/19 13:03 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 24 7  | 1  |                | 01/22/19 13:03 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0 22  | 1  |                | 01/22/19 13:03 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 98 8  | 1  |                | 01/22/19 13 03 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3 7   | 1  |                | 01/22/19 13 03 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 99      | %     | 70-130       |       | 1  |                | 01/22/19 13 03 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 89      | %     | 70-130       |       | 1  |                | 01/22/19 13 03 | 17060-07-0 |      |
| Toluene-d8 (S)   | 107     | %     | 70-130       |       | 1  |                | 01/22/19 13 03 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/57353  
 Pace Project No. 92414687

Sample: 07960 SCURRY PRE DUP Lab ID: 92414687004 Collected: 01/18/19 12:03 Received 01/19/19 09:00 Matrix: Water

| Parameters                   | Results | Units                       | Report Limit | MDL                          | DF | Prepared       | Analyzed       | CAS No     | Qual |
|------------------------------|---------|-----------------------------|--------------|------------------------------|----|----------------|----------------|------------|------|
| <b>504 GCS EDB and DBCP</b>  |         | Analytical Method EPA 504 1 |              | Preparation Method EPA 504 1 |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L                        | 0 020        | 0 020                        | 1  | 01/22/19 10 41 | 01/22/19 21 26 | 106-93-4   |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 93      | %                           | 70-130       |                              | 1  | 01/22/19 10:41 | 01/22/19 21.26 | 301-79-56  |      |
| <b>524.2 MSV</b>             |         | Analytical Method EPA 524 2 |              |                              |    |                |                |            |      |
| Benzene                      | ND      | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17 53 | 71-43-2    |      |
| 1,2-Dichloroethane           | 3.7     | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17 53 | 107-06-2   |      |
| Ethylbenzene                 | ND      | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17.53 | 100-41-4   |      |
| Methyl-tert-butyl ether      | ND      | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17:53 | 1634-04-4  |      |
| Naphthalene                  | ND      | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17:53 | 91-20-3    |      |
| Toluene                      | ND      | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17 53 | 108-88-3   |      |
| Xylene (Total)               | ND      | ug/L                        | 0.50         | 0.25                         | 1  |                | 01/23/19 17 53 | 1330-20-7  |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                |                |            |      |
| 4-Bromofluorobenzene (S)     | 93      | %                           | 70-130       |                              | 1  |                | 01/23/19 17 53 | 460-00-4   |      |
| Toluene-d8 (S)               | 96      | %                           | 70-130       |                              | 1  |                | 01/23/19 17.53 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 106     | %                           | 70-130       |                              | 1  |                | 01/23/19 17 53 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method EPA 8260B |              |                              |    |                |                |            |      |
| tert-Amyl Alcohol            | 76.6J   | ug/L                        | 100          | 53.9                         | 1  |                | 01/22/19 13 20 | 75-85-4    |      |
| tert-Amylmethyl ether        | ND      | ug/L                        | 10 0         | 3 5                          | 1  |                | 01/22/19 13 20 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L                        | 100          | 62 0                         | 1  |                | 01/22/19 13:20 | 624-95-3   |      |
| tert-Butyl Alcohol           | ND      | ug/L                        | 100          | 27 3                         | 1  |                | 01/22/19 13:20 | 75-65-0    |      |
| tert-Butyl Formate           | ND      | ug/L                        | 50 0         | 24 7                         | 1  |                | 01/22/19 13 20 | 762-75-4   |      |
| Diisopropyl ether            | ND      | ug/L                        | 1 0          | 0 22                         | 1  |                | 01/22/19 13 20 | 108-20-3   |      |
| Ethanol                      | ND      | ug/L                        | 200          | 98 8                         | 1  |                | 01/22/19 13 20 | 64-17-5    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L                        | 10 0         | 3 7                          | 1  |                | 01/22/19 13 20 | 637-92-3   |      |
| <b>Surrogates</b>            |         |                             |              |                              |    |                |                |            |      |
| 4-Bromofluorobenzene (S)     | 99      | %                           | 70-130       |                              | 1  |                | 01/22/19 13:20 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 88      | %                           | 70-130       |                              | 1  |                | 01/22/19 13:20 | 17060-07-0 |      |
| Toluene-d8 (S)               | 103     | %                           | 70-130       |                              | 1  |                | 01/22/19 13 20 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Sample: 07960 SCURRY POST Lab ID: 92414687005 Collected 01/18/19 12 10 Received 01/19/19 09 00 Matrix Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No     | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method. EPA 504 1 Preparation Method. EPA 504.1                      |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 01/22/19 10 41 | 01/22/19 21 45 | 106-93-4   |      |
| <i>Surrogates</i>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 96      | %     | 70-130       |       | 1  | 01/22/19 10 41 | 01/22/19 21 45 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method EPA 524 2  |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 71-43-2    |      |
| 1,2-Dichloroethane  | 0.51    | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/23/19 18 17 | 1330-20-7  |      |
| <i>Surrogates</i>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 92      | %     | 70-130       |       | 1  |                | 01/23/19 18 17 | 460-00-4   |      |
| Toluene-d8 (S)  | 96      | %     | 70-130       |       | 1  |                | 01/23/19 18 17 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 108     | %     | 70-130       |       | 1  |                | 01/23/19 18 17 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method EPA 8260B  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 53.9  | 1  |                | 01/22/19 13 37 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.5   | 1  |                | 01/22/19 13 37 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 62.0  | 1  |                | 01/22/19 13 37 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 27.3  | 1  |                | 01/22/19 13 37 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 24.7  | 1  |                | 01/22/19 13 37 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.22  | 1  |                | 01/22/19 13 37 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 98.8  | 1  |                | 01/22/19 13 37 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.7   | 1  |                | 01/22/19 13 37 | 637-92-3   |      |
| <i>Surrogates</i>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 98      | %     | 70-130       |       | 1  |                | 01/22/19 13 37 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 88      | %     | 70-130       |       | 1  |                | 01/22/19 13 37 | 17060-07-0 |      |
| Toluene-d8 (S)  | 104     | %     | 70-130       |       | 1  |                | 01/22/19 13 37 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP 07960/57353  
 Pace Project No: 92414687

Sample: 07960 FIELD BLANK Lab ID: 92414687006 Collected: 01/18/19 12:15 Received: 01/19/19 09:00 Matrix: Water

| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| <b>504 GCS EDB and DBCP</b>                                |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 504 1 Preparation Method: EPA 504 1 |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)                                    | ND      | ug/L  | 0 019        | 0 019 | 1  | 01/22/19 10 41 | 01/22/19 22 05 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)                                | 102     | %     | 70-130       |       | 1  | 01/22/19 10 41 | 01/22/19 22 05 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 524 2                               |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/29/19 03 58 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/29/19 03 58 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/29/19 03 58 | 100-41-4   |      |
| Methyl-tert-butyl ether                                    | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 01/29/19 03 58 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/29/19 03 58 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/29/19 03 58 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0 50         | 0 25  | 1  |                | 01/29/19 03 58 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)                                   | 95      | %     | 70-130       |       | 1  |                | 01/29/19 03 58 | 460-00-4   |      |
| Toluene-d8 (S)   | 97      | %     | 70-130       |       | 1  |                | 01/29/19 03 58 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)                                  | 109     | %     | 70-130       |       | 1  |                | 01/29/19 03 58 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>                               |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 8260B                               |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 50 0  | 1  |                | 01/21/19 21 38 | 75-85-4    |      |
| tert-Amylmethyl ether                                      | ND      | ug/L  | 10 0         | 0 10  | 1  |                | 01/21/19 21 38 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol                                     | ND      | ug/L  | 100          | 50 0  | 1  |                | 01/21/19 21 38 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 3 6   | 1  |                | 01/21/19 21 38 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50 0         | 1 9   | 1  |                | 01/21/19 21 38 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1 0          | 0 12  | 1  |                | 01/21/19 21 38 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 131   | 1  |                | 01/21/19 21 38 | 64-17-5    |      |
| Ethyl-tert-butyl ether                                     | ND      | ug/L  | 10 0         | 0 070 | 1  |                | 01/21/19 21 38 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)                                   | 103     | %     | 70-130       |       | 1  |                | 01/21/19 21 38 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)                                  | 89      | %     | 70-130       |       | 1  |                | 01/21/19 21 38 | 17060-07-0 |      |
| Toluene-d8 (S)   | 105     | %     | 70-130       |       | 1  |                | 01/21/19 21 38 | 2037-26-5  |      |

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**ANALYTICAL RESULTS**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No.: 92414687

| Sample: 07960 TRIP BLANK     |         |       |              |       |    |          |                |            |      |
|------------------------------|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Lab ID: 92414687007          |         |       |              |       |    |          |                |            |      |
| Collected 01/18/19 00:00     |         |       |              |       |    |          |                |            |      |
| Received 01/19/19 09:00      |         |       |              |       |    |          |                |            |      |
| Matrx. Water                 |         |       |              |       |    |          |                |            |      |
| Parameters                   | Results | Units | Report Limit | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
| <b>524.2 MSV</b>             |         |       |              |       |    |          |                |            |      |
| Analytical Method EPA 524.2  |         |       |              |       |    |          |                |            |      |
| Benzene                      | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 71-43-2    |      |
| 1,2-Dichloroethane           | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 107-06-2   |      |
| Ethylbenzene                 | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 100-41-4   |      |
| Methyl-tert-butyl ether      | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 1634-04-4  |      |
| Naphthalene                  | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 91-20-3    |      |
| Toluene                      | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 108-88-3   |      |
| Xylene (Total)               | ND      | ug/L  | 0.50         | 0.25  | 1  |          | 01/23/19 21:29 | 1330-20-7  |      |
| <b>Surrogates</b>            |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 94      | %     | 70-130       |       | 1  |          | 01/23/19 21:29 | 460-00-4   |      |
| Toluene-d8 (S)               | 98      | %     | 70-130       |       | 1  |          | 01/23/19 21:29 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 110     | %     | 70-130       |       | 1  |          | 01/23/19 21:29 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> |         |       |              |       |    |          |                |            |      |
| Analytical Method EPA 8260B  |         |       |              |       |    |          |                |            |      |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 50.0  | 1  |          | 01/21/19 21:56 | 75-85-4    |      |
| tert-Amylmethyl ether        | ND      | ug/L  | 10.0         | 0.10  | 1  |          | 01/21/19 21:56 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 50.0  | 1  |          | 01/21/19 21:56 | 624-95-3   |      |
| tert-Butyl Alcohol           | ND      | ug/L  | 100          | 3.6   | 1  |          | 01/21/19 21:56 | 75-65-0    |      |
| tert-Butyl Formate           | ND      | ug/L  | 50.0         | 1.9   | 1  |          | 01/21/19 21:56 | 762-75-4   |      |
| Diisopropyl ether            | ND      | ug/L  | 1.0          | 0.12  | 1  |          | 01/21/19 21:56 | 108-20-3   |      |
| Ethanol                      | ND      | ug/L  | 200          | 131   | 1  |          | 01/21/19 21:56 | 64-17-5    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10.0         | 0.070 | 1  |          | 01/21/19 21:56 | 637-92-3   |      |
| <b>Surrogates</b>            |         |       |              |       |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 102     | %     | 70-130       |       | 1  |          | 01/21/19 21:56 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 92      | %     | 70-130       |       | 1  |          | 01/21/19 21:56 | 17060-07-0 |      |
| Toluene-d8 (S)               | 103     | %     | 70-130       |       | 1  |          | 01/21/19 21:56 | 2037-26-5  |      |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No : 92414687

QC Batch 510093 Analysis Method EPA 524.2  
 QC Batch Method EPA 524 2 Analysis Description: 524 2 MSV  
 Associated Lab Samples: 92414687001, 92414687002, 92414687003, 92414687004, 92414687005

METHOD BLANK: 2754253 Matrix: Water  
 Associated Lab Samples 92414687001, 92414687002, 92414687003, 92414687004, 92414687005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10 12 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10 12 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10 12 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10:12 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10 12 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10 12 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 10 12 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 100          | 70-130          |      | 01/23/19 10 12 |            |
| 4-Bromofluorobenzene (S)  | %     | 93           | 70-130          |      | 01/23/19 10 12 |            |
| Toluene-d8 (S)            | %     | 97           | 70-130          |      | 01/23/19 10 12 |            |

| Parameter                 | Units | LABORATORY CONTROL SAMPLE & LCSD |            |             |           |            |              |     |         |            |  |
|---------------------------|-------|----------------------------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|--|
|                           |       | 2754254                          |            | 2754255     |           |            |              |     |         |            |  |
|                           |       | Spike Conc.                      | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |  |
| 1,2-Dichloroethane        | ug/L  | 20                               | 17.9       | 18.1        | 90        | 90         | 70-130       | 1   | 40      |            |  |
| Benzene                   | ug/L  | 20                               | 24.5       | 25.1        | 122       | 125        | 70-130       | 3   | 40      |            |  |
| Ethylbenzene              | ug/L  | 20                               | 23.4       | 23.0        | 117       | 115        | 70-130       | 1   | 40      |            |  |
| Methyl-tert-butyl ether   | ug/L  | 20                               | 20.9       | 21.2        | 105       | 106        | 70-130       | 1   | 40      |            |  |
| Naphthalene               | ug/L  | 20                               | 18.1       | 18.2        | 91        | 91         | 70-130       | 0   | 40      |            |  |
| Toluene                   | ug/L  | 20                               | 23.7       | 24.3        | 119       | 122        | 70-130       | 2   | 40      |            |  |
| Xylene (Total)            | ug/L  | 60                               | 61.8       | 60.3        | 103       | 100        | 70-130       | 2   | 40      |            |  |
| 1,2-Dichloroethane-d4 (S) | %     |                                  |            |             | 85        | 87         | 70-130       |     |         |            |  |
| 4-Bromofluorobenzene (S)  | %     |                                  |            |             | 101       | 101        | 70-130       |     |         |            |  |
| Toluene-d8 (S)            | %     |                                  |            |             | 97        | 99         | 70-130       |     |         |            |  |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

QC Batch: 510099 Analysis Method EPA 524 2  
 QC Batch Method EPA 524 2 Analysis Description 524.2 MSV  
 Associated Lab Samples 92414687007

METHOD BLANK. 2754263 Matrix Water  
 Associated Lab Samples 92414687007

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 01/23/19 21:05 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 109          | 70-130          |      | 01/23/19 21:05 |            |
| 4-Bromofluorobenzene (S)  | %     | 93           | 70-130          |      | 01/23/19 21:05 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          |      | 01/23/19 21:05 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2754264

2754265

| Parameter                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 20          | 21.0       | 18.9        | 105       | 95         | 70-130       | 10  | 40      |            |
| Benzene                   | ug/L  | 20          | 20.8       | 20.6        | 104       | 103        | 70-130       | 1   | 40      |            |
| Ethylbenzene              | ug/L  | 20          | 19.6       | 19.1        | 98        | 96         | 70-130       | 2   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 20          | 17.4       | 17.5        | 87        | 88         | 70-130       | 1   | 40      |            |
| Naphthalene               | ug/L  | 20          | 14.8       | 14.8        | 74        | 74         | 70-130       | 0   | 40      |            |
| Toluene                   | ug/L  | 20          | 19.2       | 19.3        | 96        | 96         | 70-130       | 0   | 40      |            |
| Xylene (Total)            | ug/L  | 60          | 52.9       | 51.9        | 88        | 87         | 70-130       | 2   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            |             | 109       | 103        | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |             |            |             | 102       | 103        | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |             |            |             | 99        | 99         | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

QC Batch: 511295 Analysis Method EPA 524 2  
 QC Batch Method EPA 524 2 Analysis Description 524 2 MSV  
 Associated Lab Samples 92414687006

METHOD BLANK: 2760904 Matrix Water  
 Associated Lab Samples: 92414687006

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 01/29/19 02:47 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 70-130          |      | 01/29/19 02:47 |            |
| 4-Bromofluorobenzene (S)  | %     | 96           | 70-130          |      | 01/29/19 02:47 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          |      | 01/29/19 02:47 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2760905 2760906

| Parameter                 | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 40         | 37.4       | 35.4        | 94        | 89         | 70-130       | 6   | 40      |            |
| Benzene                   | ug/L  | 40         | 44.7       | 42.1        | 112       | 105        | 70-130       | 6   | 40      |            |
| Ethylbenzene              | ug/L  | 40         | 43.4       | 43.4        | 108       | 108        | 70-130       | 0   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 40         | 39.5       | 38.4        | 99        | 96         | 70-130       | 3   | 40      |            |
| Naphthalene               | ug/L  | 40         | 36.2       | 38.6        | 91        | 97         | 70-130       | 6   | 40      |            |
| Toluene                   | ug/L  | 40         | 41.8       | 42.6        | 104       | 107        | 70-130       | 2   | 40      |            |
| Xylene (Total)            | ug/L  | 120        | 132        | 131         | 110       | 109        | 70-130       | 0   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            |             | 101       | 96         | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |            |            |             | 101       | 103        | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |            |            |             | 104       | 102        | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960/57353  
 Pace Project No.: 92414687

|                        |                          |                       |                       |
|------------------------|--------------------------|-----------------------|-----------------------|
| QC Batch               | 453560                   | Analysis Method       | EPA 8260B             |
| QC Batch Method:       | EPA 8260B                | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples | 92414687006, 92414687007 |                       |                       |

METHOD BLANK. 2478367 Matrix: Water  
 Associated Lab Samples 92414687006, 92414687007

| Parameter                 | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 50.0  | 01/21/19 20:11 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.12  | 01/21/19 20:11 |            |
| Ethanol                   | ug/L  | ND           | 200             | 131   | 01/21/19 20:11 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 0.070 | 01/21/19 20:11 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 50.0  | 01/21/19 20:11 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 0.10  | 01/21/19 20:11 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 3.6   | 01/21/19 20:11 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 1.9   | 01/21/19 20:11 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 88           | 70-130          |       | 01/21/19 20:11 |            |
| 4-Bromofluorobenzene (S)  | %     | 104          | 70-130          |       | 01/21/19 20:11 |            |
| Toluene-d8 (S)            | %     | 104          | 70-130          |       | 01/21/19 20:11 |            |

LABORATORY CONTROL SAMPLE 2478368

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000       | 948        | 95        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50         | 51.5       | 103       | 70-130       |            |
| Ethanol                   | ug/L  | 2000       | 1760       | 88        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100        | 98.3       | 98        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000       | 1030       | 103       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100        | 104        | 104       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500        | 459        | 92        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400        | 442        | 111       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 102       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 98        | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 97        | 70-130       |            |

MATRIX SPIKE SAMPLE: 2478370

| Parameter              | Units | 92414683013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol | ug/L  | ND                 | 400         | 406       | 102      | 70-130       |            |
| Diisopropyl ether      | ug/L  | ND                 | 20          | 19.5      | 98       | 70-130       |            |
| Ethanol                | ug/L  | ND                 | 800         | 757       | 95       | 70-130       |            |
| Ethyl-tert-butyl ether | ug/L  | ND                 | 40          | 36.6      | 92       | 70-130       |            |
| tert-Amyl Alcohol      | ug/L  | ND                 | 400         | 419       | 105      | 70-130       |            |
| tert-Amylmethyl ether  | ug/L  | ND                 | 40          | 41.3      | 103      | 70-130       |            |
| tert-Butyl Alcohol     | ug/L  | ND                 | 200         | 221       | 111      | 70-130       |            |
| tert-Butyl Formate     | ug/L  | ND                 | 160         | ND        | 0        | 70-130       | P5         |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No. 92414687

| MATRIX SPIKE SAMPLE       | 2478370 | 92414683013 | Spike Conc | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|---------|-------------|------------|-----------|----------|--------------|------------|
| Parameter                 | Units   | Result      |            |           |          |              |            |
| 1,2-Dichloroethane-d4 (S) | %       |             |            |           | 91       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %       |             |            |           | 100      | 70-130       |            |
| Toluene-d8 (S)            | %       |             |            |           | 99       | 70-130       |            |

| SAMPLE DUPLICATE. 2478369 |       | 92414683012 | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|---------|------------|
| Parameter                 | Units | Result      |            |     |         |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND          | ND         |     | 30      |            |
| Diisopropyl ether         | ug/L  | ND          | ND         |     | 30      |            |
| Ethanol                   | ug/L  | ND          | ND         |     | 30      |            |
| Ethyl-tert-butyl ether    | ug/L  | ND          | ND         |     | 30      |            |
| tert-Amyl Alcohol         | ug/L  | ND          | ND         |     | 30      |            |
| tert-Amylmethyl ether     | ug/L  | ND          | ND         |     | 30      |            |
| tert-Butyl Alcohol        | ug/L  | ND          | ND         |     | 30      |            |
| tert-Butyl Formate        | ug/L  | ND          | ND         |     | 30      |            |
| 1,2-Dichloroethane-d4 (S) | %     | 90          | 93         | 3   |         |            |
| 4-Bromofluorobenzene (S)  | %     | 102         | 106        | 4   |         |            |
| Toluene-d8 (S)            | %     | 106         | 104        | 2   |         |            |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

QC Batch 453634 Analysis Method: EPA 8260B  
 QC Batch Method EPA 8260B Analysis Description 8260 MSV Low Level SC  
 Associated Lab Samples 92414687002, 92414687003, 92414687004, 92414687005

METHOD BLANK 2478563 Matrix Water  
 Associated Lab Samples 92414687002, 92414687003, 92414687004, 92414687005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 62.0 | 01/22/19 09:38 |            |
| Diisopropyl ether         | ug/L  | ND           | 10              | 0.22 | 01/22/19 09:38 |            |
| Ethanol                   | ug/L  | ND           | 200             | 98.8 | 01/22/19 09:38 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.7  | 01/22/19 09:38 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 53.9 | 01/22/19 09:38 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.5  | 01/22/19 09:38 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 27.3 | 01/22/19 09:38 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 24.7 | 01/22/19 09:38 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 87           | 70-130          |      | 01/22/19 09:38 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 70-130          |      | 01/22/19 09:38 |            |
| Toluene-d8 (S)            | %     | 107          | 70-130          |      | 01/22/19 09:38 |            |

LABORATORY CONTROL SAMPLE 2478564

| Parameter                 | Units | Spike Conc | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000       | 980        | 98        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50         | 51.3       | 103       | 70-130       |            |
| Ethanol                   | ug/L  | 2000       | 1890       | 94        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100        | 99.5       | 100       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000       | 1050       | 105       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100        | 103        | 103       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500        | 510        | 102       | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400        | 421        | 105       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |            |            | 96        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |            |            | 97        | 70-130       |            |
| Toluene-d8 (S)            | %     |            |            | 97        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2478565 2478566

| Parameter              | Units | 2478565   |                | 2478566   |                | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual  |
|------------------------|-------|-----------|----------------|-----------|----------------|----------|-----------|--------------|---------|-------|
|                        |       | MS Result | MSD Spike Conc | MS Result | MSD Spike Conc |          |           |              |         |       |
| 3,3-Dimethyl-1-Butanol | ug/L  | ND        | 4000           | 3610      | 3870           | 90       | 97        | 70-130       | 7       | 30    |
| Diisopropyl ether      | ug/L  | 5.5J      | 200            | 218       | 221            | 106      | 108       | 70-130       | 1       | 30    |
| Ethanol                | ug/L  | ND        | 8000           | 8510      | 8370           | 106      | 105       | 70-130       | 2       | 30    |
| Ethyl-tert-butyl ether | ug/L  | ND        | 400            | 406       | 413            | 102      | 103       | 70-130       | 2       | 30    |
| tert-Amyl Alcohol      | ug/L  | ND        | 4000           | 4490      | 4630           | 112      | 116       | 70-130       | 3       | 30    |
| tert-Amylmethyl ether  | ug/L  | ND        | 400            | 420       | 434            | 105      | 108       | 70-130       | 3       | 30    |
| tert-Butyl Alcohol     | ug/L  | ND        | 2000           | 2910      | 2840           | 134      | 130       | 70-130       | 2       | 30 M1 |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Parameter                 | Units | 2478565              |                     | 2478566               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|---------------------------|-------|----------------------|---------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
|                           |       | 2613920014<br>Result | MS<br>Spike<br>Conc | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |            |     |      |
| tert-Butyl Formate        | ug/L  | ND                   | 1600                | 1600                  | 725          | 799          |               | 45          | 50           | 70-130          | 10         | 30  | P5   |
| 1,2-Dichloroethane-d4 (S) | %     |                      |                     |                       |              |              |               | 90          | 87           | 70-130          |            |     |      |
| 4-Bromofluorobenzene (S)  | %     |                      |                     |                       |              |              |               | 98          | 98           | 70-130          |            |     |      |
| Toluene-d8 (S)            | %     |                      |                     |                       |              |              |               | 97          | 98           | 70-130          |            |     |      |

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960/57353  
Pace Project No 92414687

QC Batch: 453962 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92414687001

METHOD BLANK: 2479813 Matrix Water  
Associated Lab Samples: 92414687001

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 62.0 | 01/23/19 09:35 |            |
| Diisopropyl ether         | ug/L  | ND           | 10              | 0.22 | 01/23/19 09:35 |            |
| Ethanol                   | ug/L  | ND           | 200             | 98.8 | 01/23/19 09:35 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.7  | 01/23/19 09:35 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 53.9 | 01/23/19 09:35 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.5  | 01/23/19 09:35 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 27.3 | 01/23/19 09:35 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 24.7 | 01/23/19 09:35 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 85           | 70-130          |      | 01/23/19 09:35 |            |
| 4-Bromofluorobenzene (S)  | %     | 99           | 70-130          |      | 01/23/19 09:35 |            |
| Toluene-d8 (S)            | %     | 100          | 70-130          |      | 01/23/19 09:35 |            |

LABORATORY CONTROL SAMPLE: 2479814

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 893        | 89        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 47.4       | 95        | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 1750       | 88        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 92.3       | 92        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 963        | 96        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 95.7       | 96        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 470        | 94        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 390        | 98        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 94        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 96        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 97        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2479815 2479816

| Parameter              | Units | 92414637010 |                 | 2479815   |                 | 2479816   |            | % Rec | % Rec  | % Rec Limits | Max RPD | Qual |
|------------------------|-------|-------------|-----------------|-----------|-----------------|-----------|------------|-------|--------|--------------|---------|------|
|                        |       | MS Result   | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Result |       |        |              |         |      |
| 3,3-Dimethyl-1-Butanol | ug/L  | ND          | 2000            | 1790      | 2000            | 1830      | 89         | 91    | 70-130 | 2            | 30      |      |
| Diisopropyl ether      | ug/L  | ND          | 100             | 96.9      | 100             | 97.8      | 97         | 98    | 70-130 | 1            | 30      |      |
| Ethanol                | ug/L  | ND          | 4000            | 3700      | 4000            | 3770      | 93         | 94    | 70-130 | 2            | 30      |      |
| Ethyl-tert-butyl ether | ug/L  | ND          | 200             | 191       | 200             | 192       | 95         | 96    | 70-130 | 1            | 30      |      |
| tert-Amyl Alcohol      | ug/L  | ND          | 2000            | 1900      | 2000            | 1890      | 95         | 95    | 70-130 | 0            | 30      |      |
| tert-Amylmethyl ether  | ug/L  | ND          | 200             | 199       | 200             | 205       | 100        | 103   | 70-130 | 3            | 30      |      |
| tert-Butyl Alcohol     | ug/L  | ND          | 1000            | 1280      | 1000            | 1260      | 128        | 126   | 70-130 | 1            | 30      |      |

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**QUALITY CONTROL DATA**

Project 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

| Parameter                 | Units | 2479815               |                     | 2479816              |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max           |     |
|---------------------------|-------|-----------------------|---------------------|----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|---------------|-----|
|                           |       | 92414637010<br>Result | MS<br>Spike<br>Conc | MSD<br>Spike<br>Conc | MS<br>Result |              |               |             |              |                 | MSD<br>Result | RPD |
| tert-Butyl Formate        | ug/L  | ND                    | 800                 | 800                  | 248J         | 240J         | 31            | 30          | 70-130       |                 | 30            | P5  |
| 1,2-Dichloroethane-d4 (S) | %     |                       |                     |                      |              |              | 85            | 83          | 70-130       |                 |               |     |
| 4-Bromofluorobenzene (S)  | %     |                       |                     |                      |              |              | 96            | 96          | 70-130       |                 |               |     |
| Toluene-d8 (S)            | %     |                       |                     |                      |              |              | 96            | 98          | 70-130       |                 |               |     |

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960/57353  
 Pace Project No 92414687

QC Batch 453668 Analysis Method EPA 504.1  
 QC Batch Method EPA 504 1 Analysis Description GCS 504 EDB DBCP  
 Associated Lab Samples 92414687001, 92414687002, 92414687003, 92414687004, 92414687005, 92414687006

METHOD BLANK: 2478676 Matrix Water  
 Associated Lab Samples 92414687001, 92414687002, 92414687003, 92414687004, 92414687005, 92414687006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 01/22/19 16:53 |            |
| 1-Chloro-2-bromopropane (S) | %     | 95           | 70-130          |       | 01/22/19 16:53 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2478677

2478678

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 0.25       | 0.26       | 0.25        | 101       | 97         | 70-130       | 4   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 95        | 93         | 70-130       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2478680

2478681

| Parameter                   | Units | 92414687002 Result | MS Spike Conc | MSD Spike Conc | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|---------------|----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 0.24          | 0.24           | 0.27      | 0.27       | 113      | 110       | 65-135       | 2   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |               |                |           |            | 105      | 104       | 70-130       |     |         |      |

SAMPLE DUPLICATE: 2478679

| Parameter                   | Units | 92414687001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 93                 | 96         | 3   |         |            |

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## QUALIFIERS

Project 378 TRUCK STOP 07960/57353  
Pace Project No 92414687

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
ND - Not Detected at or above adjusted reporting limit  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
MDL - Adjusted Method Detection Limit  
PQL - Practical Quantitation Limit  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270 The result for each analyte is a combined concentration  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration  
Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes  
TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery  
P4 Sample field preservation does not meet EPA or method recommendations for this analysis  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 378 TRUCK STOP 07960/57353  
 Pace Project No.: 92414687

| Lab ID      | Sample ID            | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------------|-----------------|----------|-------------------|------------------|
| 92414687001 | 07960 GORDON PRE     | EPA 504.1       | 453668   | EPA 504.1         | 453763           |
| 92414687002 | 07960 GORDON POST    | EPA 504.1       | 453668   | EPA 504.1         | 453763           |
| 92414687003 | 07960 SCURRY PRE     | EPA 504.1       | 453668   | EPA 504.1         | 453763           |
| 92414687004 | 07960 SCURRY PRE DUP | EPA 504.1       | 453668   | EPA 504.1         | 453763           |
| 92414687005 | 07960 SCURRY POST    | EPA 504.1       | 453668   | EPA 504.1         | 453763           |
| 92414687006 | 07960 FIELD BLANK    | EPA 504.1       | 453668   | EPA 504.1         | 453763           |
| 92414687001 | 07960 GORDON PRE     | EPA 524.2       | 510093   |                   |                  |
| 92414687002 | 07960 GORDON POST    | EPA 524.2       | 510093   |                   |                  |
| 92414687003 | 07960 SCURRY PRE     | EPA 524.2       | 510093   |                   |                  |
| 92414687004 | 07960 SCURRY PRE DUP | EPA 524.2       | 510093   |                   |                  |
| 92414687005 | 07960 SCURRY POST    | EPA 524.2       | 510093   |                   |                  |
| 92414687006 | 07960 FIELD BLANK    | EPA 524.2       | 511295   |                   |                  |
| 92414687007 | 07960 TRIP BLANK     | EPA 524.2       | 510099   |                   |                  |
| 92414687001 | 07960 GORDON PRE     | EPA 8260B       | 453962   |                   |                  |
| 92414687002 | 07960 GORDON POST    | EPA 8260B       | 453634   |                   |                  |
| 92414687003 | 07960 SCURRY PRE     | EPA 8260B       | 453634   |                   |                  |
| 92414687004 | 07960 SCURRY PRE DUP | EPA 8260B       | 453634   |                   |                  |
| 92414687005 | 07960 SCURRY POST    | EPA 8260B       | 453634   |                   |                  |
| 92414687006 | 07960 FIELD BLANK    | EPA 8260B       | 453560   |                   |                  |
| 92414687007 | 07960 TRIP BLANK     | EPA 8260B       | 453560   |                   |                  |

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WO#: 92414687

**CHAIN-OF-CUSTODY Analytical Request Document**

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MTJL Log

**ALL SHADED AREA**

Company: **Emerald Inc** Billing Information:

Address: **Po Box 3050 Sumter, SC 29151**

Report To: **R. Lowder** Email To:

Copy To: Site Collection Info/Address:

Customer Project Name/Number: **378 Truck Stop** State: **SC** County/City: **Sumter** Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone: **803-469-5454** Site/Facility ID #: **07960** Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): **Cody Lopp** Purchase Order #: DW PWS ID #: DW Location Code:

Collected By (signature): *Cody Lopp* Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold: Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) |      | Composite End |      | Res CI | # of Ctns | Analyses | Lab Profile/Line   |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|--------|-----------|----------|--|
|                    |          |             | Date                           | Time | Date          | Time |        |           |          |  |
| 07960 Garden Fire  | GW       | 6           |                                |      | 1-18-19       | 1106 |        | 9         | X        | Lab Sample Receipt Checklist:<br>Custody Seals Present/Intact <input checked="" type="checkbox"/> NA<br>Custody Signatures Present <input checked="" type="checkbox"/> NA<br>Collector Signatures Present <input checked="" type="checkbox"/> NA<br>Bottles Intact <input checked="" type="checkbox"/> NA<br>Correct Bottles <input checked="" type="checkbox"/> NA<br>Sufficient Volume <input checked="" type="checkbox"/> NA<br>Samples Received on Ice <input checked="" type="checkbox"/> NA<br>VOA - Headspace Acceptable <input checked="" type="checkbox"/> NA<br>USDA Regulated Soils <input checked="" type="checkbox"/> NA<br>Samples in Holding Time <input checked="" type="checkbox"/> NA<br>Residual Chlorine Present <input checked="" type="checkbox"/> NA<br>Cl Strips: <input checked="" type="checkbox"/> NA<br>Sample pH Acceptable <input checked="" type="checkbox"/> NA<br>pH Strips: <input checked="" type="checkbox"/> NA<br>Sulfide Present <input checked="" type="checkbox"/> NA<br>Lead Acetate Strips: <input checked="" type="checkbox"/> NA<br>LAB USE ONLY:<br>Lab Sample # / Comments: <b>92414687</b> |
| Garden Post        |          |             |                                |      |               | 1105 |        | 9         | X        |  |
| Scurry Pre         |          |             |                                |      |               | 1200 |        | 9         | X        |  |
| Scurry Pre DUP     |          |             |                                |      |               | 1203 |        | 9         | X        |  |
| Scurry POST        |          |             |                                |      |               | 1210 |        | 9         | X        |  |
| Field Blank        |          |             |                                |      |               | 1215 |        | 9         | X        |  |
| 07960 Trip Blank   | GW       | 6           |                                |      | 1-18-19       | -    |        | 4         | X        |  |

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used:  Wet  Blue  Dry  None SHORT HOLDS PRESENT (<72 hours):  Y  N/A

Packing Material Used: **Bubble bags** Lab Tracking #: **2341566**

Radchem sample(s) screened (<500 cpm):  Y  N  NA Samples received via: FEDEX  UPS  Client  Courier  Pace Courier

Relinquished by/Company: (Signature) *Cody Lopp* Date/Time: **1-18-19/1600** Received by/Company: (Signature) *SSC Brewer* Date/Time: **1/18/19 4:43**

Relinquished by/Company: (Signature) *A Walker* Date/Time: **1/19/19 9:00**

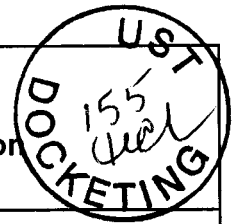
Lab Sample Temperature Info:  
Temp Blank Received:  Y  N  NA  
Therm ID#: **921046**  
Cooler 1 Temp Upon Receipt: **1.9** °C  
Cooler 1 Therm Corr. Factor: **0** °C  
Cooler 1 Corrected Temp: **1.9** °C  
Comments:

Trip Blank Received:  Y  N  NA  
HCL MeOH TSP Other

Non Conformance(s): YES /  NO Page: of:



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division



To: Sharlen Nguyen (SCDHEC Project Manager)
From: Sharlen Nguyen (Contractor Project Manager)
Contractor: SC DHEC UST Program UST Contractor Certification Number: UCC-0116

Facility Name: Former 378 Truck Stop UST Permit #: 07960
Facility Address: 731 Hwy 378, Edgefield, SC 29824
Responsible Party: Wilerson Fuel Co Inc Phone: 803-324-4080
RP Address: PO Box 2835 Rock Hill, SC 29732
Property Owner (if different): Gail & Barbara Whitmir
Property Owner Address: 1226 Hwy 378 E, Edgefield, SC, 29824
Current Use of Property:

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, GAC, Other Confirmation Sampling

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Soil, Monitoring Wells, Water Supply Wells, Surface Water, Air, Duplicate, Field Blank, Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: Estimated Footage: feet per point
# of deep points proposed: Estimated Footage: feet per point
Field Screening Methodology:

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: Estimated Footage: feet per point
# of deep wells: Estimated Footage: feet per point
# of recovery wells: Estimated Footage: feet per point
Comments, if warranted:



UST Permit #: 07960 Facility Name: Former 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: \_\_\_\_\_ Field Work Completion: \_\_\_\_\_

Report Submittal: \_\_\_\_\_ # of Copies Provided to Property Owners: \_\_\_\_\_

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: \_\_\_\_\_ Gallons

Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

confirmation sampling for Scurry WSW due to breakthrough 1,2 Dichlorethane for post GAC  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

\_\_\_\_ Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_

SCDHEC Certification Number: \_\_\_\_\_

Name of Laboratory Director: \_\_\_\_\_

\_\_\_\_ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_

SCLLR Certification Number: \_\_\_\_\_

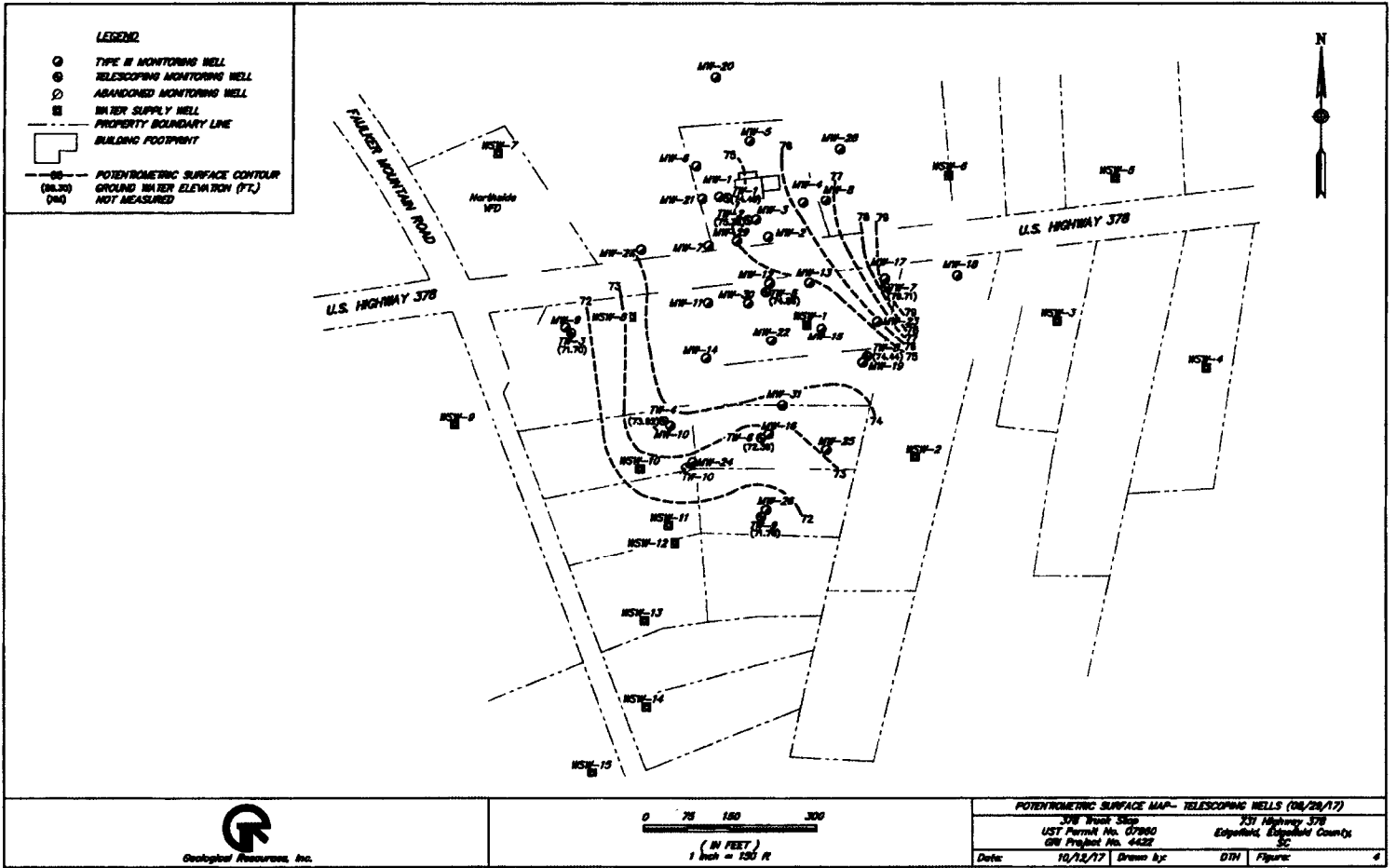
\_\_\_\_ Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

|                                    |   |
|------------------------------------|---|
| North Arrow                        | Proposed monitoring well locations                                      |
| Location of property lines         | Legend with facility name and address, UST permit number, and bar scale |
| Location of buildings              | Streets or highways (indicate names and numbers)                        |
| Previous soil sampling locations   | Location of all present and former ASTs and USTs                        |
| Previous monitoring well locations | Location of all potential receptors                                     |
| Proposed soil boring locations     |   |
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



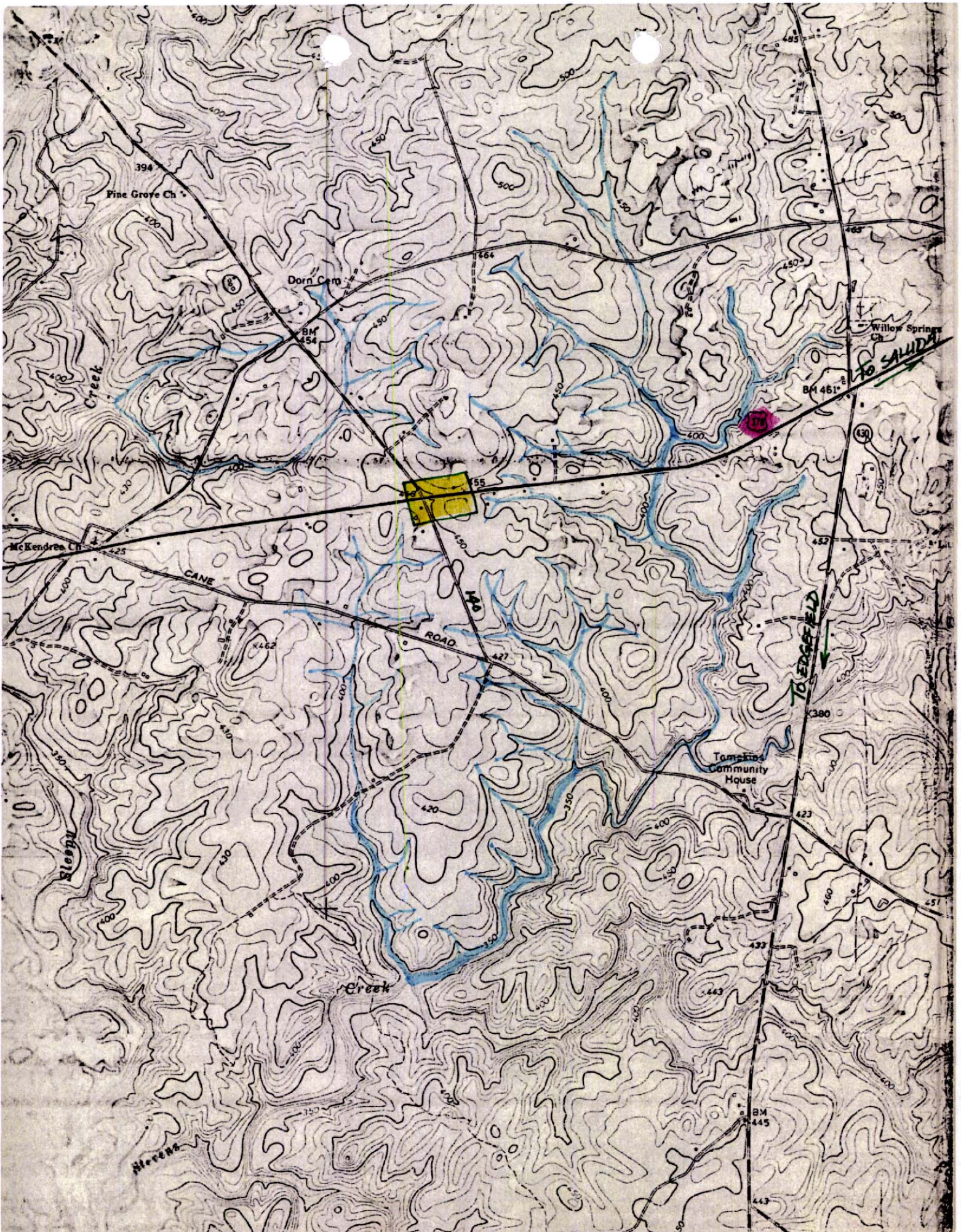
**LEGEND**

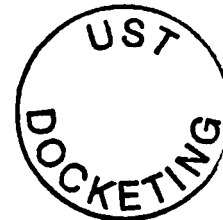
- TYPE II MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ⊘ ABANDONED MONITORING WELL
- WATER SUPPLY WELL
- PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT
- - - POTENTIOMETRIC SURFACE CONTOUR
- (DMS) GROUND WATER ELEVATION (FT.)
- NOT MEASURED



|   |                                  |
|---|----------------------------------|
| POTENTIOMETRIC SURFACE MAP - TELESCOPING WELLS (08/28/17) |                                  |
| 308 West Side   | 731 Highway 378                  |
| USF Permit No. 07880                                      | Edgarfield, Edgefield County, SC |
| GW Project No. 4432                                       |                                  |
| Date: 10/12/17  | Drawn by: DDI Figure: 4          |







MAR 06 2019

ANGELA BAIONI  
PACE ANALYTICAL SERVICES  
9800 KINCEY AVE STE 100  
HUNTERSVILLE NC 28078

Re: Laboratory Analyses Approval  
(Analytical) Bid #IFB-5400012961-04/06/17-EMW; PO #4600683759

Dear Ms. Baioni:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number listed below. Please reference the CA number and Purchase Order number on the appropriate invoice submitted for payment against the facility.

| UST # | FACILITY NAME         | # of Samples<br>(ANALYSES-<br>GROUNDWATER) | # OF WSW Samples<br>(ANALYSES-POTABLE<br>WATER) | CA #  |
|-------|-----------------------|--|---|-------|
| 03026 | Infingers Amoco       |  | 3 (524.2,8260)                                  | 59097 |
| 07960 | Former 378 Truck Stop |  | 2(524.2,8260,504.1)                             | 59104 |
|       |                       |  |   |       |

If you have any questions or need further assistance, please contact Robert A. Dunn by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Sharlen Nguyen, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement

Cc: Robert A. Dunn, UST Management Division, Corrective Action & Field Support Section  
Technical File

**Approved Cost Agreement****59104**

Facility: 07960 378 TRUCK STOP

NGUYENS

PO Number:

| <u>Task / Description</u> | <u>Categories</u>    | <u>Item Description</u>          | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|----------------------|----------------------------------|------------------|-------------------|---------------|
| 11 ANALYSES               |                      |                                  |                  |                   |               |
|                           | WATER DRINKING WATER | L BTEXNM+1,2 DCA (524.2)         | 5.0000           | \$36.000          | 180.00        |
|                           |                      | M 7-OXYGENATES & ETHANOL (8260B) | 5.0000           | \$13.000          | 65.00         |
|                           |                      | N EDB (504.1)                    | 4.0000           | \$18.000          | 72.00         |
|                           |                      | <b>Total Amount</b>              |                  |                   | <b>317.00</b> |

**Approved Cost Agreement****59097**

Facility: 03026 NFINGERS AMOCO

NGUYENS

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>          | <u>Qty / Pct</u>    | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|----------------------------------|---------------------|-------------------|---------------|
| 11 ANALYSES               |                   |                                  |                     |                   |               |
|                           |                   | WATER DRINKING WATER             |                     |                   |               |
|                           |                   | L BTEXNM+1,2 DCA (524.2)         | 6.0000              | \$36.000          | 216.00        |
|                           |                   | M 7-OXYGENATES & ETHANOL (8260B) | 6.0000              | \$13.000          | 78.00         |
|                           |                   |                                  | <b>Total Amount</b> |                   | <b>294.00</b> |



Underground Storage Tank Management Division  
Field Activity Request Form

Date of Request: 02/21/2019



Type of Request (Check one):  Emergency (<2 Working Days)  
 Specific (1-5 Working Days)  
 Routine (10 Working Days)

Please specify type of work to be completed:

WSW-Scurry - Post - Pre  
DUP

Site ID #: 07960  
Site Name: Former 378 Truck Stop  
Site Address: 730 Hwy 378 East, Edgefield, SC  
County: Edgefield  
Project Manager: Sharlen Nguyen

Remember to Establish Cost Proposals

PACE CA#: 59104 PACE PO#: 4600683759

Field Staff Information:

Date Field Activity Completed: 3/4/2019  
Completed By: C. White  
Date Field Notes Entered into EFIS: 3/4/19

Notes: Breakthrough on WSW-Scurry  
ERROR on GAC unit  
both post and pre gas samples looked  
clearly  
1428 - post gas, 1440 - dup, 1432 - pre  
FB - 1440



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: \_\_\_\_\_ of \_\_\_\_\_

**1998877**

**REGULATORY AGENCY**

NPDES     GROUND WATER     DRINKING WATER  
 UST     RCRA     OTHER \_\_\_\_\_

**Site Location**    SC

**STATE:** SC

|  |   |  |
|--|---|--|
| <b>Section A</b><br>Required Client Information: | <b>Section B</b><br>Required Project Information: | <b>Section C</b><br>Invoice Information:   |
| Company: <u>SC DHEC</u>                          | Report To: <u>Robert Dunn</u>                     | Attention:                                 |
| Address: <u>2000 Bull Street</u>                 | Copy To:  | Company Name:                              |
| <u>Columbia, SC 29170</u>                        | <u>Former 378 Truck Stop</u>                      | Address:                                   |
| Email To: <u>dunnra@dhec.sc.gov</u>              | Purchase Order No.: <u>4600683759 dw</u>          | Pace Quote Reference:                      |
| Phone: <u>898 0671</u> Fax:                      | Project Name: <u>Former 378 Truck Stop</u>        | Pace Project Manager: <u>Angela Burchi</u> |
| Requested Due Date/TAT:                          | Project Number: <u>CA #59104</u>                  | Pace Profile #:                            |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATERIAL CODE<br>(see legend codes to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   | Analysis Test<br>↓ Y/N ↓ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Face Project No./ Lab I.D. |          |       |
|--------|--|-------------------------------|---|--------------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|--------------------------|-----------------------------------|-------------------------|----------------------------|----------|-------|
|        |  |                               |   |                                | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |                          |                                   |                         |                            | Methanol | Other |
|        |  |                               |   |                                | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 1      | WSW-Scurry-Pre                           |                               | DWG   |                                |                 |      | 3/4/19             | 1432 | 9                         |                 |               |                                |                  |     |      |   |                          |                                   | LDL                     |                            |          |       |
| 2      | WSW-Scurry-Post                          |                               |   |                                |                 |      | 3/4/19             | 1428 | 9                         |                 |               |                                |                  |     |      |   |                          |                                   | LDL                     |                            |          |       |
| 3      | Dup                                      |                               |   |                                |                 |      | 3/4/19             | 1430 | 9                         |                 |               |                                |                  |     |      |   |                          |                                   | LDL                     |                            |          |       |
| 4      | Field Blank                              |                               |   |                                |                 |      | 3/4/19             | 1440 | 9                         |                 |               |                                |                  |     |      |   |                          |                                   | LDL                     |                            |          |       |
| 5      | Trip Blank                               |                               |   |                                |                 |      | 3/4/19             |      | 4                         |                 |               |                                |                  |     |      |   |                          |                                   | LDL                     |                            |          |       |
| 6      |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 7      |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 8      |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 9      |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 10     |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 11     |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |
| 12     |  |                               |   |                                |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |                          |                                   |                         |                            |          |       |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE   | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|--------|------|---------------------------|------|------|-------------------|
| Report J values     | <i>[Signature]</i>            | 3/6/19 | 9:18 | <i>[Signature]</i>        | 3-27 | 9/18 |                   |
|                     |                               |        |      |                           |      |      |                   |
|                     |                               |        |      |                           |      |      |                   |

2

|                                   |                    |               |                       |                             |                      |
|-----------------------------------|--------------------|---------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b> |                    | Temp in °C    | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER:            | <u>Cone White</u>  |               |                       |                             |                      |
| SIGNATURE of SAMPLER:             | <i>[Signature]</i> |               |                       |                             |                      |
| DATE Signed (MM/DD/YY):           |                    | <u>3/4/19</u> |                       |                             |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-Q-020rev.07, 15-May-2007



### Instructions for completing Chain of Custody (COC)

1. **Section A and B:** Complete all Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are questions, and who will receive the final report.), e-mail address (if available), PO#, Project Name and/or Project Number as you would like to see it appear on the report.
2. **Section C:** Invoice Information: Billing information is included in this section. This information should include the name and address of the person receiving the invoice.
3. Quote Reference should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by Pace Analytical Services.
4. **Site Location:** A separate COC must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the samples were collected.
5. **Regulatory Agency:** List the program that is guiding the work to ensure proper regulations are followed.
6. **Section D:** Complete a Sample Description in the "SAMPLE ID" section as you would like it to appear on the laboratory report. The following information should also be included: the sample matrix, sample type (G (grab) or C (composite)). When collecting a composite, the start time and end time should be documented in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked 'Composite End/Grab', Sample temp at collection (if required by state), the total number of containers, and preservative used.
7. Mark if the sample was filtered in the field by marking Y or N in 'Filtered' row by the Analysis requested.
8. Requested Analysis: List the required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. Additional comments should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.
9. The sampler should print their name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the spaces designated for 'SAMPLER NAME AND SIGNATURE'.
10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

**\*Important Note:**

**Standard Turnaround Time is 2 Weeks/10 business days.** Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

**Special Project Requirements** such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.



Healthy People. Healthy Communities.

RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

MAR 26 2019



Re: **Notice to Proceed-GAC Unit Installation**  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit # 07960; CA #59251  
IFB-5400011271-4/28/16-EMW; PO #4600603935  
Edgefield County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, a GAC unit maintenance has been approved for the Scurry residence located at 703 Hwy 378 East, Edgefield, SC 29824. The contact person for this facility is Ms. Scurry. This facility has been assigned an individual Cost Agreement (CA) number as listed above. Please reference the CA #59251 and PO #4600603935 on the invoice submitted for payment. Emerald Inc. should complete the work in accordance with the contract specifications. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in accordance with all applicable regulations. A GAC Unit Installation and Maintenance record should be submitted within **ten (10) days** from the date of the Notice to Proceed.

If you have any questions or need further assistance, please contact me at (803) 898-2831 or by email at [nguyens@dhec.sc.gov](mailto:nguyens@dhec.sc.gov).

Sincerely,

A handwritten signature in cursive script, appearing to read "S. Nguyen".

Sharlen Nguyen, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement form  
Site Information

cc: Adam Looper, UST Management Division (w/o enc)  
Technical File (w/ enc)

**Approved Cost Agreement**

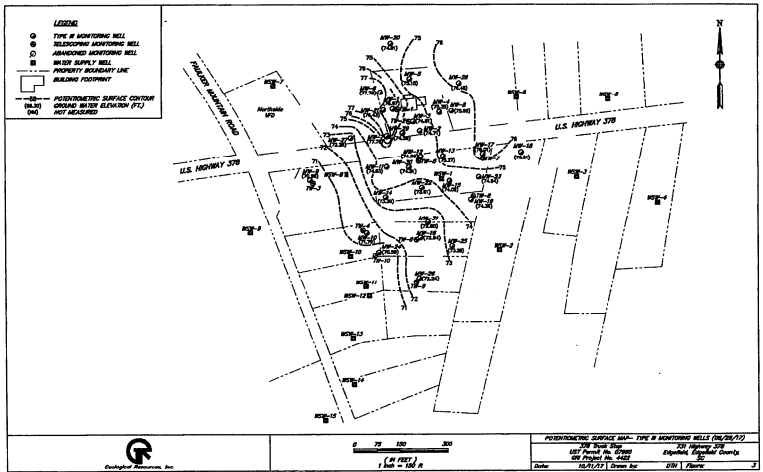
**59251**

Facility: 07960 378 TRUCK STOP

NGUYENS

PO Number:

| <u>Task / Description</u> | <u>Categories</u> | <u>Item Description</u>                      | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u> |
|---------------------------|-------------------|--|------------------|-------------------|---------------|
| 04 MOB/DEMOB              |                   | B1 PERSONNEL                                 | 2.0000           | \$150.000         | 300.00        |
| 18 MISCELLANEOUS          |                   | SERVICE CALL TO RESET, REPAIR, OR OTHER SERV | 4.0000           | \$45.000          | 180.00        |
| <b>Total Amount</b>       |                   |  |                  |                   | <b>480.00</b> |





Pace Analytical Services, LLC  
9800 Kinsey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

March 15, 2019

Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Fmr 378 Truck Stop 07960/59104  
Pace Project No.: 92420247

Dear Robert Dunn:

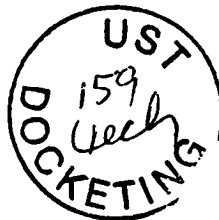
Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager



Enclosures



**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC



## CERTIFICATIONS

Project: Fmr 378 Truck Stop 07960/59104  
Pace Project No.: 92420247

---

### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH-0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Fmr 378 Truck Stop 07960/59104  
Pace Project No.. 92420247

| Lab ID      | Sample ID       | Matrix | Date Collected | Date Received  |
|-------------|-----------------|--------|----------------|----------------|
| 92420247001 | WSW-Scurry-Pre  | Water  | 03/04/19 14:32 | 03/06/19 14:13 |
| 92420247002 | WSW-Scurry-Post | Water  | 03/04/19 14:28 | 03/06/19 14:13 |
| 92420247003 | Dup             | Water  | 03/04/19 14:30 | 03/06/19 14:13 |
| 92420247004 | Field Blank     | Water  | 03/04/19 14:40 | 03/06/19 14:13 |
| 92420247005 | Trip Blank      | Water  | 03/04/19 00:00 | 03/06/19 14:13 |

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**SAMPLE ANALYTE COUNT**

Project: Fmr 378 Truck Stop 07960/59104  
 Pace Project No.: 92420247

| Lab ID      | Sample ID       | Method    | Analysts | Analytes Reported | Laboratory |
|-------------|-----------------|-----------|----------|-------------------|------------|
| 92420247001 | WSW-Scurry-Pre  | EPA 504.1 | BAJ      | 2                 | PASI-C     |
|             |                 | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                 | EPA 8260B | CL       | 11                | PASI-C     |
| 92420247002 | WSW-Scurry-Post | EPA 504.1 | BAJ      | 2                 | PASI-C     |
|             |                 | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                 | EPA 8260B | CL       | 11                | PASI-C     |
| 92420247003 | Dup             | EPA 504.1 | BAJ      | 2                 | PASI-C     |
|             |                 | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                 | EPA 8260B | CL       | 11                | PASI-C     |
| 92420247004 | Field Blank     | EPA 504.1 | BAJ      | 2                 | PASI-C     |
|             |                 | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                 | EPA 8260B | CL       | 11                | PASI-C     |
| 92420247005 | Trip Blank      | EPA 524.2 | JLR      | 10                | PASI-O     |
|             |                 | EPA 8260B | CL       | 11                | PASI-C     |

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**ANALYTICAL RESULTS**

Project: Fmr 378 Truck Stop 07960/59104  
 Pace Project No.: 92420247

| Sample: WSW-Scurry-Pre Lab ID: 92420247001 Collected: 03/04/19 14:32 Received: 03/06/19 14:13 Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1                      |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 03/11/19 12:19 | 03/11/19 21:07 | 106-93-4   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 99      | %     | 70-130       |       | 1  | 03/11/19 12:19 | 03/11/19 21:07 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524.2   |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 71-43-2    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:58 | 1330-20-7  |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 97      | %     | 70-130       |       | 1  |                | 03/14/19 04:58 | 460-00-4   | HS   |
| Toluene-d8 (S)  | 102     | %     | 70-130       |       | 1  |                | 03/14/19 04:58 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 108     | %     | 70-130       |       | 1  |                | 03/14/19 04:58 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 53.9  | 1  |                | 03/07/19 11:34 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.5   | 1  |                | 03/07/19 11:34 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 62.0  | 1  |                | 03/07/19 11:34 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 27.3  | 1  |                | 03/07/19 11:34 | 75-65-0    | M1   |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 24.7  | 1  |                | 03/07/19 11:34 | 762-75-4   | P5   |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.22  | 1  |                | 03/07/19 11:34 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 98.8  | 1  |                | 03/07/19 11:34 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.7   | 1  |                | 03/07/19 11:34 | 637-92-3   |      |
| <b>Surrogates</b>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 105     | %     | 70-130       |       | 1  |                | 03/07/19 11:34 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 98      | %     | 70-130       |       | 1  |                | 03/07/19 11:34 | 17060-07-0 |      |
| Toluene-d8 (S)  | 113     | %     | 70-130       |       | 1  |                | 03/07/19 11:34 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: Fmr 378 Truck Stop 07960/59104

Pace Project No.: 92420247

| Sample: WSW-Scurry-Post      Lab ID: 92420247002      Collected 03/04/19 14:28      Received: 03/06/19 14:13      Matrix: Water |         |       |              |       |    |                |                |            |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1                                     |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 03/11/19 12:19 | 03/11/19 21:27 | 106-93-4   |      |
| <i>Surrogates</i>   |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)   | 100     | %     | 70-130       |       | 1  | 03/11/19 12:19 | 03/11/19 21:27 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524.2   |         |       |              |       |    |                |                |            |      |
| Benzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 71-43-2    |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 107-06-2   |      |
| Ethylbenzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 1634-04-4  |      |
| Naphthalene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 91-20-3    |      |
| Toluene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 108-88-3   |      |
| Xylene (Total)  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 04:34 | 1330-20-7  |      |
| <i>Surrogates</i>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 93      | %     | 70-130       |       | 1  |                | 03/14/19 04:34 | 460-00-4   |      |
| Toluene-d8 (S)  | 96      | %     | 70-130       |       | 1  |                | 03/14/19 04:34 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)   | 108     | %     | 70-130       |       | 1  |                | 03/14/19 04:34 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 53.9  | 1  |                | 03/07/19 11:16 | 75-85-4    |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 3.5   | 1  |                | 03/07/19 11:16 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 62.0  | 1  |                | 03/07/19 11:16 | 624-95-3   |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 27.3  | 1  |                | 03/07/19 11:16 | 75-65-0    |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 24.7  | 1  |                | 03/07/19 11:16 | 762-75-4   |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0          | 0.22  | 1  |                | 03/07/19 11:16 | 108-20-3   |      |
| Ethanol   | ND      | ug/L  | 200          | 98.8  | 1  |                | 03/07/19 11:16 | 64-17-5    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 3.7   | 1  |                | 03/07/19 11:16 | 637-92-3   |      |
| <i>Surrogates</i>   |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)  | 104     | %     | 70-130       |       | 1  |                | 03/07/19 11:16 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 100     | %     | 70-130       |       | 1  |                | 03/07/19 11:16 | 17060-07-0 |      |
| Toluene-d8 (S)  | 111     | %     | 70-130       |       | 1  |                | 03/07/19 11:16 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: Fmr 378 Truck Stop 07960/59104

Pace Project No. 92420247

| Sample: Dup  |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Lab ID: 92420247003 Collected: 03/04/19 14:30 Received: 03/06/19 14:13 Matrix: Water |         |       |              |       |    |                |                |            |      |
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b>  |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 504.1 Preparation Method: EPA 504.1                           |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 03/11/19 12:19 | 03/11/19 21:47 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 105     | %     | 70-130       |       | 1  | 03/11/19 12:19 | 03/11/19 21:47 | 301-79-56  |      |
| <b>524.2 MSV</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 524.2   |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 15:11 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 93      | %     | 70-130       |       | 1  |                | 03/14/19 15:11 | 460-00-4   |      |
| Toluene-d8 (S)   | 99      | %     | 70-130       |       | 1  |                | 03/14/19 15:11 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |       | 1  |                | 03/14/19 15:11 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b>   |         |       |              |       |    |                |                |            |      |
| Analytical Method: EPA 8260B   |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 53.9  | 1  |                | 03/07/19 10:58 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 3.5   | 1  |                | 03/07/19 10:58 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 62.0  | 1  |                | 03/07/19 10:58 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 27.3  | 1  |                | 03/07/19 10:58 | 75-85-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 24.7  | 1  |                | 03/07/19 10:58 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.22  | 1  |                | 03/07/19 10:58 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 98.8  | 1  |                | 03/07/19 10:58 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.7   | 1  |                | 03/07/19 10:58 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 106     | %     | 70-130       |       | 1  |                | 03/07/19 10:58 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 97      | %     | 70-130       |       | 1  |                | 03/07/19 10:58 | 17060-07-0 |      |
| Toluene-d8 (S)   | 110     | %     | 70-130       |       | 1  |                | 03/07/19 10:58 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: Fmr 378 Truck Stop 07960/59104  
Pace Project No.: 92420247

| Sample: Field Blank      Lab ID: 92420247004      Collected: 03/04/19 14:40      Received: 03/06/19 14:13      Matrix: Water |         |       |              |       |    |                |                |            |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1                                  |         |       |              |       |    |                |                |            |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 03/11/19 12:19 | 03/11/19 22:07 | 106-93-4   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 1-Chloro-2-bromopropane (S)  | 96      | %     | 70-130       |       | 1  | 03/11/19 12:19 | 03/11/19 22:07 | 301-79-56  |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524.2  |         |       |              |       |    |                |                |            |      |
| Benzene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 71-43-2    |      |
| 1,2-Dichloroethane   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 107-06-2   |      |
| Ethylbenzene   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 100-41-4   |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 1634-04-4  |      |
| Naphthalene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 91-20-3    |      |
| Toluene  | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 108-88-3   |      |
| Xylene (Total)   | ND      | ug/L  | 0.50         | 0.25  | 1  |                | 03/14/19 05:22 | 1330-20-7  |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 95      | %     | 70-130       |       | 1  |                | 03/14/19 05:22 | 460-00-4   |      |
| Toluene-d8 (S)   | 94      | %     | 70-130       |       | 1  |                | 03/14/19 05:22 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %     | 70-130       |       | 1  |                | 03/14/19 05:22 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B  |         |       |              |       |    |                |                |            |      |
| tert-Amyl Alcohol  | ND      | ug/L  | 100          | 53.9  | 1  |                | 03/07/19 08:53 | 75-85-4    |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 100          | 3.5   | 1  |                | 03/07/19 08:53 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 62.0  | 1  |                | 03/07/19 08:53 | 624-95-3   |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 27.3  | 1  |                | 03/07/19 08:53 | 75-65-0    |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 24.7  | 1  |                | 03/07/19 08:53 | 762-75-4   |      |
| Diisopropyl ether  | ND      | ug/L  | 1.0          | 0.22  | 1  |                | 03/07/19 08:53 | 108-20-3   |      |
| Ethanol  | ND      | ug/L  | 200          | 98.8  | 1  |                | 03/07/19 08:53 | 64-17-5    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 3.7   | 1  |                | 03/07/19 08:53 | 637-92-3   |      |
| <b>Surrogates</b>  |         |       |              |       |    |                |                |            |      |
| 4-Bromofluorobenzene (S)   | 106     | %     | 70-130       |       | 1  |                | 03/07/19 08:53 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 98      | %     | 70-130       |       | 1  |                | 03/07/19 08:53 | 17060-07-0 |      |
| Toluene-d8 (S)   | 109     | %     | 70-130       |       | 1  |                | 03/07/19 08:53 | 2037-26-5  |      |

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### ANALYTICAL RESULTS

Project: Fmr 378 Truck Stop 07960/59104

Pace Project No.: 92420247

Sample: Trip Blank Lab ID: 92420247005 Collected: 03/04/19 00:00 Received: 03/06/19 14:13 Matrix: Water

| Parameters                   | Results | Units | Report Limit | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------|---------|-------|--------------|------|----|----------|----------------|------------|------|
| <b>524.2 MSV</b>             |         |       |              |      |    |          |                |            |      |
| Analytical Method: EPA 524.2 |         |       |              |      |    |          |                |            |      |
| Benzene                      | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 71-43-2    |      |
| 1,2-Dichloroethane           | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 107-06-2   |      |
| Ethylbenzene                 | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 100-41-4   |      |
| Methyl-tert-butyl ether      | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 1634-04-4  |      |
| Naphthalene                  | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 91-20-3    |      |
| Toluene                      | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 108-88-3   |      |
| Xylene (Total)               | ND      | ug/L  | 0.50         | 0.25 | 1  |          | 03/14/19 04:10 | 1330-20-7  |      |
| <b>Surrogates</b>            |         |       |              |      |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 89      | %     | 70-130       |      | 1  |          | 03/14/19 04:10 | 460-00-4   |      |
| Toluene-d8 (S)               | 97      | %     | 70-130       |      | 1  |          | 03/14/19 04:10 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 107     | %     | 70-130       |      | 1  |          | 03/14/19 04:10 | 17060-07-0 |      |
| <b>8260 MSV Low Level SC</b> |         |       |              |      |    |          |                |            |      |
| Analytical Method EPA 8260B  |         |       |              |      |    |          |                |            |      |
| tert-Amyl Alcohol            | ND      | ug/L  | 100          | 53.9 | 1  |          | 03/07/19 07:59 | 75-85-4    |      |
| tert-Amylmethyl ether        | ND      | ug/L  | 10.0         | 3.5  | 1  |          | 03/07/19 07:59 | 994-05-8   |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L  | 100          | 62.0 | 1  |          | 03/07/19 07:59 | 624-95-3   |      |
| tert-Butyl Alcohol           | ND      | ug/L  | 100          | 27.3 | 1  |          | 03/07/19 07:59 | 75-65-0    |      |
| tert-Butyl Formate           | ND      | ug/L  | 50.0         | 24.7 | 1  |          | 03/07/19 07:59 | 762-75-4   |      |
| Diisopropyl ether            | ND      | ug/L  | 1.0          | 0.22 | 1  |          | 03/07/19 07:59 | 108-20-3   |      |
| Ethanol                      | ND      | ug/L  | 200          | 98.8 | 1  |          | 03/07/19 07:59 | 64-17-5    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L  | 10.0         | 3.7  | 1  |          | 03/07/19 07:59 | 637-92-3   |      |
| <b>Surrogates</b>            |         |       |              |      |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 105     | %     | 70-130       |      | 1  |          | 03/07/19 07:59 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)    | 96      | %     | 70-130       |      | 1  |          | 03/07/19 07:59 | 17060-07-0 |      |
| Toluene-d8 (S)               | 110     | %     | 70-130       |      | 1  |          | 03/07/19 07:59 | 2037-26-5  |      |

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**QUALITY CONTROL DATA**

Project Fmr 378 Truck Stop 07960/59104  
 Pace Project No.: 92420247

QC Batch: 522587 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92420247001, 92420247002, 92420247004, 92420247005

METHOD BLANK: 2823224 Matrix: Water  
 Associated Lab Samples: 92420247001, 92420247002, 92420247004, 92420247005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 03/13/19 21:22 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 105          | 70-130          |      | 03/13/19 21:22 |            |
| 4-Bromofluorobenzene (S)  | %     | 94           | 70-130          |      | 03/13/19 21:22 |            |
| Toluene-d8 (S)            | %     | 96           | 70-130          |      | 03/13/19 21:22 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2823225

2823226

| Parameter                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 40          | 41.9       | 39.9        | 105       | 100        | 70-130       | 5   | 40      |            |
| Benzene                   | ug/L  | 40          | 39.7       | 39.5        | 99        | 99         | 70-130       | 0   | 40      |            |
| Ethylbenzene              | ug/L  | 40          | 40.6       | 40.2        | 101       | 100        | 70-130       | 1   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 40          | 40.2       | 40.6        | 100       | 101        | 70-130       | 1   | 40      |            |
| Naphthalene               | ug/L  | 40          | 34.4       | 36.0        | 86        | 90         | 70-130       | 4   | 40      |            |
| Toluene                   | ug/L  | 40          | 36.9       | 37.1        | 92        | 93         | 70-130       | 1   | 40      |            |
| Xylene (Total)            | ug/L  | 120         | 112        | 110         | 93        | 92         | 70-130       | 2   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            |             | 111       | 106        | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |             |            |             | 100       | 103        | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |             |            |             | 105       | 102        | 70-130       |     |         |            |

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### QUALITY CONTROL DATA

Project: Fmr 378 Truck Stop 07960/59104  
Pace Project No.: 92420247

|                                     |                                 |
|-------------------------------------|---------------------------------|
| QC Batch: 523083                    | Analysis Method: EPA 524.2      |
| QC Batch Method: EPA 524.2          | Analysis Description: 524.2 MSV |
| Associated Lab Samples: 92420247003 |                                 |

METHOD BLANK: 2826220 Matrix: Water  
Associated Lab Samples: 92420247003

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| Benzene                   | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| Ethylbenzene              | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| Naphthalene               | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| Toluene                   | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| Xylene (Total)            | ug/L  | ND           | 0.50            | 0.25 | 03/14/19 13:04 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 105          | 70-130          |      | 03/14/19 13:04 |            |
| 4-Bromofluorobenzene (S)  | %     | 95           | 70-130          |      | 03/14/19 13:04 |            |
| Toluene-d8 (S)            | %     | 94           | 70-130          |      | 03/14/19 13:04 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2826221

2826222

| Parameter                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dichloroethane        | ug/L  | 40          | 42.9       | 38.8        | 107       | 97         | 70-130       | 10  | 40      |            |
| Benzene                   | ug/L  | 40          | 39.8       | 39.8        | 99        | 99         | 70-130       | 0   | 40      |            |
| Ethylbenzene              | ug/L  | 40          | 42.2       | 41.1        | 106       | 103        | 70-130       | 3   | 40      |            |
| Methyl-tert-butyl ether   | ug/L  | 40          | 41.7       | 40.9        | 104       | 102        | 70-130       | 2   | 40      |            |
| Naphthalene               | ug/L  | 40          | 36.9       | 37.2        | 92        | 93         | 70-130       | 1   | 40      |            |
| Toluene                   | ug/L  | 40          | 39.4       | 39.7        | 99        | 99         | 70-130       | 1   | 40      |            |
| Xylene (Total)            | ug/L  | 120         | 117        | 112         | 98        | 94         | 70-130       | 4   | 40      |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            |             | 105       | 101        | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)  | %     |             |            |             | 103       | 98         | 70-130       |     |         |            |
| Toluene-d8 (S)            | %     |             |            |             | 105       | 103        | 70-130       |     |         |            |

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**QUALITY CONTROL DATA**

Project: Fmr 378 Truck Stop 07960/59104  
 Pace Project No.: 92420247

QC Batch: 461880 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92420247001, 92420247002, 92420247003, 92420247004, 92420247005

METHOD BLANK: 2514562 Matrix: Water  
 Associated Lab Samples: 92420247001, 92420247002, 92420247003, 92420247004, 92420247005

| Parameter                 | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 62.0 | 03/07/19 02:02 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 0.22 | 03/07/19 02:02 |            |
| Ethanol                   | ug/L  | ND           | 200             | 98.8 | 03/07/19 02:02 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 3.7  | 03/07/19 02:02 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 53.9 | 03/07/19 02:02 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 3.5  | 03/07/19 02:02 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 27.3 | 03/07/19 02:02 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 24.7 | 03/07/19 02:02 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 70-130          |      | 03/07/19 02:02 |            |
| 4-Bromofluorobenzene (S)  | %     | 108          | 70-130          |      | 03/07/19 02:02 |            |
| Toluene-d8 (S)            | %     | 110          | 70-130          |      | 03/07/19 02:02 |            |

LABORATORY CONTROL SAMPLE 2514563

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 754        | 75        | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 44.7       | 89        | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 1590       | 80        | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 88.3       | 88        | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 849        | 85        | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 88.0       | 88        | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 360        | 72        | 70-130       |            |
| tert-Butyl Formate        | ug/L  | 400         | 355        | 89        | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 96        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 100       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 96        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2514564 2514565

| Parameter              | Units | 2514564        |                 | 2514565   |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                        |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result |          |           |              |     |         |      |
| 3,3-Dimethyl-1-Butanol | ug/L  | ND             | 400             | 455       | 443        | 114      | 111       | 70-130       | 3   | 30      |      |
| Diisopropyl ether      | ug/L  | ND             | 20              | 19.7      | 19.0       | 98       | 95        | 70-130       | 3   | 30      |      |
| Ethanol                | ug/L  | ND             | 800             | 846       | 826        | 106      | 103       | 70-130       | 2   | 30      |      |
| Ethyl-tert-butyl ether | ug/L  | ND             | 40              | 39.2      | 37.3       | 98       | 93        | 70-130       | 5   | 30      |      |
| tert-Amyl Alcohol      | ug/L  | ND             | 400             | 416       | 399        | 104      | 100       | 70-130       | 4   | 30      |      |
| tert-Amylmethyl ether  | ug/L  | ND             | 40              | 41.7      | 39.4       | 104      | 99        | 70-130       | 6   | 30      |      |
| tert-Butyl Alcohol     | ug/L  | ND             | 200             | 282       | 276        | 141      | 138       | 70-130       | 2   | 30 M1   |      |

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### QUALITY CONTROL DATA

Project: Fmr 378 Truck Stop 07960/59104

Pace Project No.: 92420247

| Parameter                 | Units | 2514564            |                | 2514565         |     | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max |      |
|---------------------------|-------|--------------------|----------------|-----------------|-----|-----------|------------|----------|-----------|--------------|-----|------|
|                           |       | 92420247001 Result | MS Spike Conc. | MSD Spike Conc. | RPD |           |            |          |           |              | RPD | Qual |
| tert-Butyl Formate        | ug/L  | ND                 | 160            | 160             | ND  | ND        | 0          | 0        | 70-130    |              | 30  | P5   |
| 1,2-Dichloroethane-d4 (S) | %     |                    |                |                 |     |           | 91         | 92       | 70-130    |              |     |      |
| 4-Bromofluorobenzene (S)  | %     |                    |                |                 |     |           | 97         | 99       | 70-130    |              |     |      |
| Toluene-d8 (S)            | %     |                    |                |                 |     |           | 100        | 100      | 70-130    |              |     |      |

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**QUALITY CONTROL DATA**

Project: Fmr 378 Truck Stop 07960/59104  
Pace Project No.: 92420247

QC Batch: 462545 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92420247001, 92420247002, 92420247003, 92420247004

METHOD BLANK: 2517570 Matrix: Water  
Associated Lab Samples 92420247001, 92420247002, 92420247003, 92420247004

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 0.020 | 03/11/19 17:26 |            |
| 1-Chloro-2-bromopropane (S) | %     | 102          | 70-130          |       | 03/11/19 17:26 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2517571 2517572

| Parameter                   | Units | Spike Conc | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 0.25       | 0.27       | 0.26        | 107       | 103        | 70-130       | 3   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |            |            |             | 101       | 97         | 70-130       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE. 2517574 2517575

| Parameter                   | Units | 92419726002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 0.048              |                |                 | 0.32      | 0.31       |          |           |              | 3   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                    |                |                 |           |            | 108      | 102       | 70-130       |     |         |      |

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## QUALIFIERS

Project: Fmr 378 Truck Stop 07960/59104

Pace Project No.: 92420247

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Fmr 378 Truck Stop 07960/59104  
 Pace Project No.: 92420247

| Lab ID      | Sample ID       | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-----------------|----------|-------------------|------------------|
| 92420247001 | WSW-Scurry-Pre  | EPA 504.1       | 462545   | EPA 504.1         | 462614           |
| 92420247002 | WSW-Scurry-Post | EPA 504.1       | 462545   | EPA 504.1         | 462614           |
| 92420247003 | Dup             | EPA 504.1       | 462545   | EPA 504.1         | 462614           |
| 92420247004 | Field Blank     | EPA 504.1       | 462545   | EPA 504.1         | 462614           |
| 92420247001 | WSW-Scurry-Pre  | EPA 524.2       | 522587   |                   |                  |
| 92420247002 | WSW-Scurry-Post | EPA 524.2       | 522587   |                   |                  |
| 92420247003 | Dup             | EPA 524.2       | 523083   |                   |                  |
| 92420247004 | Field Blank     | EPA 524.2       | 522587   |                   |                  |
| 92420247005 | Trip Blank      | EPA 524.2       | 522587   |                   |                  |
| 92420247001 | WSW-Scurry-Pre  | EPA 8260B       | 461880   |                   |                  |
| 92420247002 | WSW-Scurry-Post | EPA 8260B       | 461880   |                   |                  |
| 92420247003 | Dup             | EPA 8260B       | 461880   |                   |                  |
| 92420247004 | Field Blank     | EPA 8260B       | 461880   |                   |                  |
| 92420247005 | Trip Blank      | EPA 8260B       | 461880   |                   |                  |

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Document Name:  
Sample Condition Upon Receipt (SCUR)  
Document No.:  
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018  
Page 1 of 2  
Issuing Authority:  
Pace Carolinas Quality Office

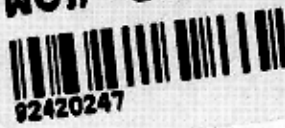
Laboratory receiving samples:  
Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #:

WO#: **92420247**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 3-6-19

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  
 Yes  No  N/A

Thermometer:  IR Gun ID: 92T048 Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 0.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): \_\_\_\_\_

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

|   |  |  | Comments/Discrepancy: |
|---|--|--|-----------------------|
| Chain of Custody Present?                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 1.                    |
| Samples Arrived within Hold Time?                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 2.                    |
| Short Hold Time Analysis (<72 hr.)?               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  | 3.                    |
| Rush Turn Around Time Requested?                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  | 4.                    |
| Sufficient Volume?                                | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  | 5.                    |
| Correct Containers Used?                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 6.                    |
| -Pace Containers Used?                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |                       |
| Containers Intact?                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 7.                    |
| Dissolved analysis: Samples Field Filtered?       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  | 8.                    |
| Sample Labels Match COC?                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 9.                    |
| -Includes Date/Time/ID/Analysis Matrix: <u>WT</u> |  |  |                       |
| Headspace in VOA Vials (>5-6mm)?                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |  | 10.                   |
| Trip Blank Present?                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 11.                   |
| Trip Blank Custody Seals Present?                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |                       |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

only rec'd one set of TB

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: AMB Date: 3-7-19  
Project Manager SRF Review: AMB Date: 3-7-19

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **W0# : 92420247**

PM: AMB Due Date: 03/15/19  
CLIENT: 92-SCDHEC

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

| Item #   | Item Description | 1 | 2 | 3 | 4 | 5 | 6  | 7 | 8 | 9 | 10 | 11 | 12 |
|--|------------------|---|---|---|---|---|----|---|---|---|----|----|----|
| BP4U-125 mL Plastic Unpreserved (N/A) (C-)           |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP3U-250 mL Plastic Unpreserved (N/A)                |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP2U-500 mL Plastic Unpreserved (N/A)                |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP1U-1 liter Plastic Unpreserved (N/A)               |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)              |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP3N-250 mL plastic HNO3 (pH < 2)                    |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP4Z-125 mL Plastic ZN Acetate & NaOH (pH > 12) (C-) |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| BP4C-125 mL Plastic NaOH (pH > 12) (C-)              |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| W6FU-Wide-mouthed Glass Jar Unpreserved              |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG1U-1 liter Amber Unpreserved (N/A) (C-)            |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG1M-1 liter Amber HCl (pH < 2)                      |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG3U-250 mL Amber Unpreserved (N/A) (C-)             |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG1S-1 liter Amber H2SO4 (pH < 2)                    |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG3S-250 mL Amber H2SO4 (pH < 2)                     |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG34P63A1-250 mL Amber NH4Cl (N/A)(C-)               |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| DG9H-40 mL VOA HCl (N/A)                             |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| VG9T-40 mL VOA Na2S2O3 (N/A)                         |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| VG9U-40 mL VOA Unp (N/A)                             |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| DG9P-40 mL VOA H3PO4 (N/A)                           |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| VOAK (6 vials per kit)-5035 kit (N/A)                |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| V/SK (3 vials per kit)-VPH/Gas kit (N/A)             |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| SPST-125 mL Sterile Plastic (N/A - lab)              |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| SP2T-250 mL Sterile Plastic (N/A - lab)              |                  |   |   |   |   |   | 63 |   |   |   |    |    |    |
| BP3A-250 mL Plastic (NH2)2SO4 (pH > 9-7)             |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| AG0U-100 mL Amber Unpreserved vials (N/A)            |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| V50U-20 mL Scintillation vials (N/A)                 |                  |   |   |   |   |   |    |   |   |   |    |    |    |
| DG9U-40 mL Amber Unpreserved vials (N/A)             |                  |   |   |   |   |   |    |   |   |   |    |    |    |

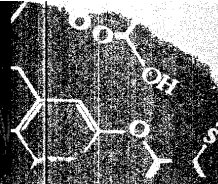
| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |
|           |                      |                 |                            |                            |                              |       |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).





WHERE BUSINESS AND THE ENVIRONMENT CONVERGE



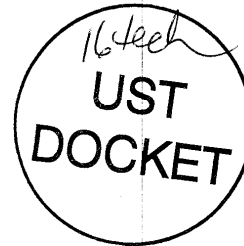
13504 South Point Boulevard, Unit F, Charlotte, NC 28273 tel 704.583.2711 fax 704.583.2744 www.ecsconsult.com

November 23, 2010  
ECS Project No. 14-214210  
UST Permit No. 07960



Ms. Cathleen Ridgley  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Re: WSW-8 GAC Installation  
378 Truck Stop  
731 Highway 378  
Edgefield, South Carolina 29824  
Edgefield County



Dear Ms. Ridgley:

Environmental Compliance Services, Inc. (ECS), on behalf of Wilkerson Fuel Company, Inc., visited Mr. Sidney Gordon's residence, located at 724 Highway 378, Edgefield, SC, on November 12, 2010 to install a Granular Activated Carbon (GAC) unit on private water supply well WSW-8 (**Figure 1** and **Figure 2**). This work was conducted in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated November 12, 2010. The directive required a GAC unit be installed on WSW-8 due to elevated concentrations of contaminants of concern reported in groundwater samples collected by ECS from the water supply well on October 19, 2010. The analytical results obtained by ECS were verified with a sampling conducted by SCDHEC on November 4, 2010. The laboratory report from the verification sampling event conducted by SCDHEC has been included as **Appendix A**. The laboratory report from the initial sampling will be included with the Tier II report, which will also include groundwater sampling results from site monitoring wells.

Upon arrival to the residence on November 12, 2010, ECS personnel discussed the planned activities with the property owner, Mr. Sidney Gordon. A 12 x 52 mesh GAC unit containing 90 lbs of acid-washed virgin carbon was installed on the private water supply well utilizing chlorinated polyvinyl chloride (CPVC) piping. Influent and effluent sample ports were installed on the piping in pre- and post-carbon locations for subsequent collection of groundwater samples. The GAC vessel was placed inside a wooden shed for protection from weathering from outdoor elements.

Prior to installation, the GAC was charged to relieve air from the unit and to prepare the carbon to receive water. Following installation, water was discharged from the supply well, through the GAC unit, and out the effluent until the water ran clear and no apparent air bubbles were present. After the GAC vessel was installed and water had been purged from the unit, groundwater samples were collected from the influent and effluent sample ports. The groundwater samples

Printed on recycled, carbon neutral paper



Ms. Cathleen Ridgley – SCDHEC  
378 Truck Stop – WSW-8 GAC Installation  
November 23, 2010  
Page 2 of 2

were placed into an iced cooler and delivered to Pace Analytical Laboratories of Huntersville, NC for subsequent analysis of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes), MTBE, naphthalene, 1,2 DCA, and oxygenates using EPA Method 8260B and EDB using EPA Method 8011. The laboratory report has been included as **Appendix B**.

A concentration of 1,2 DCA was reported above the Risk Based Screening Level (RBSL) in the pre-carbon water sample. A concentration of TAA was reported above the RBSL in the pre-carbon water sample. Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the post-carbon water sample.

Please contact the undersigned at 704-583-2711 or email [cdupuis@ecsconsult.com](mailto:cdupuis@ecsconsult.com) or [bschaefer@ecsconsult.com](mailto:bschaefer@ecsconsult.com) if you have any questions or require additional information.

Sincerely,  
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

*Christine E. Dupuis*

Christine E. Dupuis  
Project Manager

*Brett G. Schaefer*  
Brett G. Schaefer, PE  
SC License No. 27700



Enclosures

cc: Mr. Frank Wilkerson, Wilkerson Fuel Company, PO Box 2835, Rock Hill, SC 29732

F:\Projects\14-214210 378 Truck Stop\WSW-8 GAC Install\WSW-8 GAC Install Report.doc

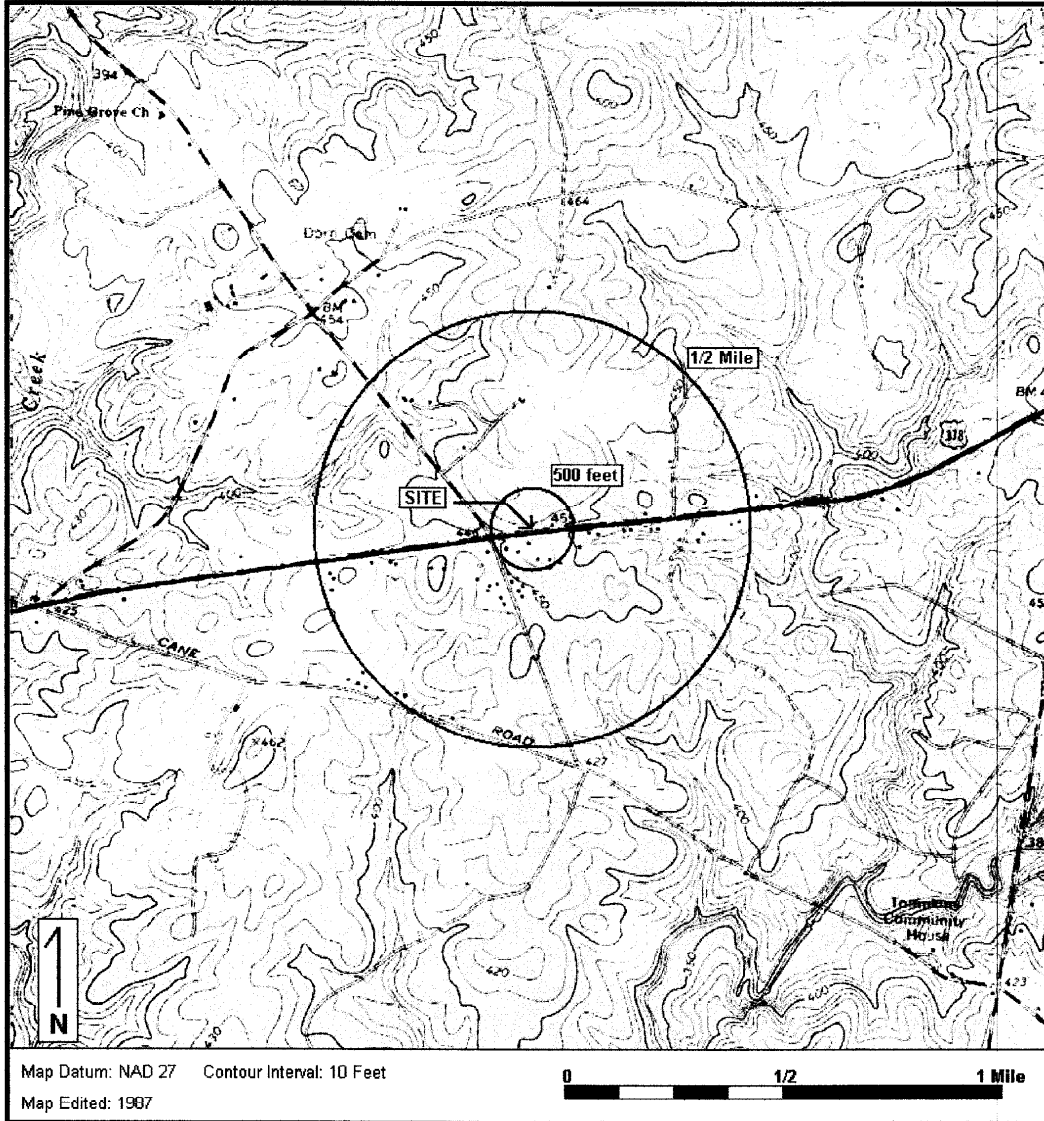
## FIGURES



Environmental Compliance Services, Inc.  
13504 South Point Boulevard  
Charlotte, NC 28273  
Phone 704.583.2711  
www.ecsconsult.com

378 Truck Stop  
731 Highway 378  
Edgefield, SC 29824

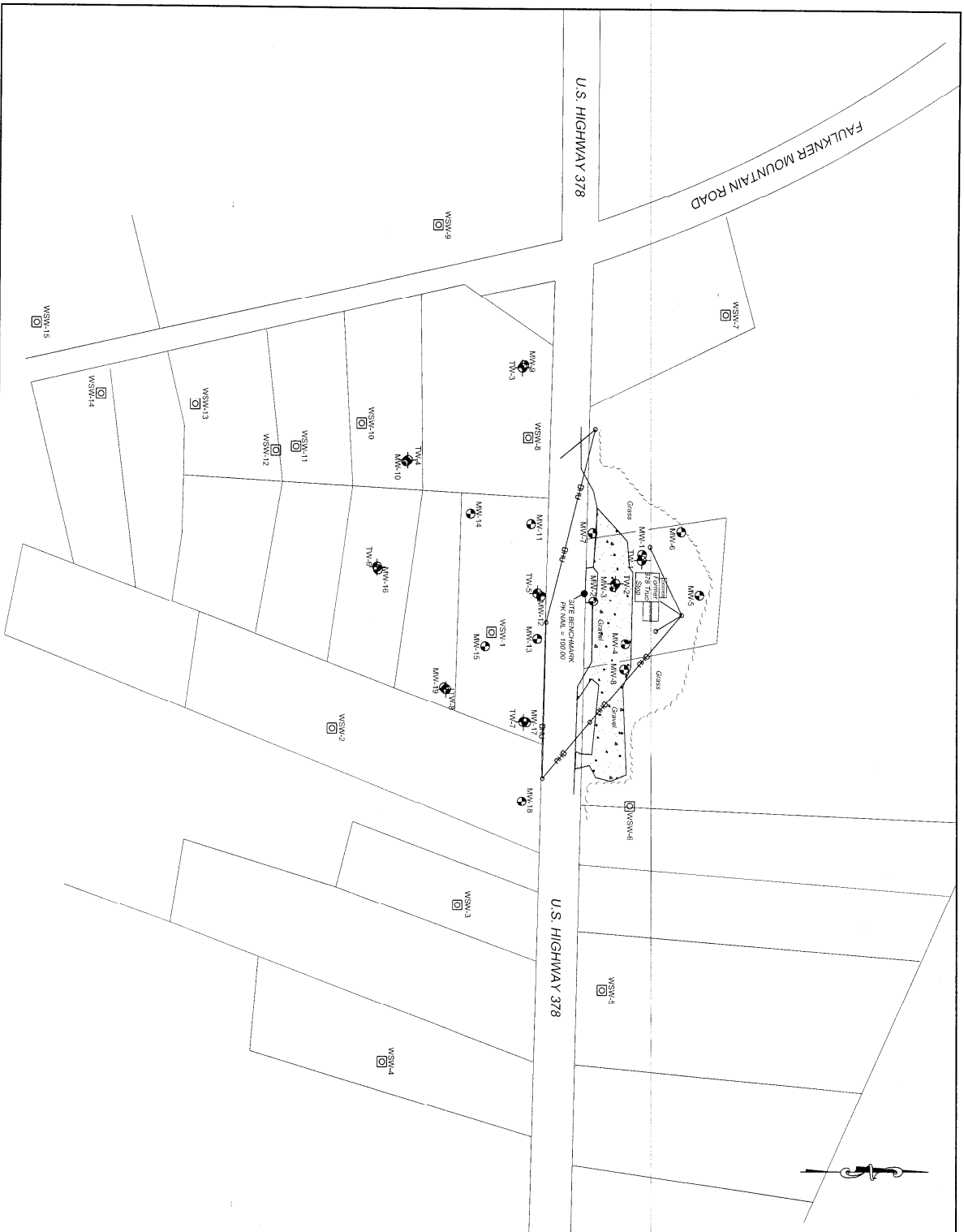
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC

Lat/Lon: 33° 56' 13" NORTH, 81° 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH

Generated By: Rich Walas



- Legend**
- Approximate Property Line
  - Overhead Electric Line
  - Utility Pole
  - Shallow (Water Table) Monitoring Well
  - ⊕ Telescoping Monitoring Well
  - ⊞ Water Supply Well
  - MW-1 Well ID.

**General Notes:**  
 All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.  
 Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE  
 ENVIRONMENTAL CONSULTANTS  
 CHARLOTTE, NORTH CAROLINA 28273  
 TEL: (704)885-2711 FAX: (704)885-2744

**378 Truck Stop**  
 731 Highway 378  
 Edgefield, SC

**Site Plan**

CLIENT: **Wilkinson Fuel Company, Inc.**

|               |          |            |           |              |
|---------------|----------|------------|-----------|--------------|
| GRAPHIC SCALE | 75'      | 0'         | 75'       | 150'         |
| DESIGNED BY   | CD       | CHECKED BY | CD        | APPROVED BY  |
| DATE          | 11/23/10 | DRAWN NO.  | 14-214210 | REVISION NO. |
|               |          |            |           | 2            |



Pace Analytical Services, Inc.  
2225 Riverside Dr.  
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(828)254-7176

Pace Analytical Services, Inc.  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

November 08, 2010

Ms. Debra Thoma  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Erin Waters for  
Renee Spencer  
renee.spencer@pacelabs.com  
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

#### Charlotte Certification IDs

9800 Kinney Ave. Ste 100, Huntersville, NC 28078  
Louisiana/LELAP Certification #: 04034  
New Jersey Certification #: NC012  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
Pennsylvania Certification #: 68-00784  
South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003  
Virginia Certification #: 00213  
Connecticut Certification #: PH-0104  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DHH Drinking Water # LA 100031  
West Virginia Certification #: 357

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab ID     | Sample ID    | Matrix | Date Collected | Date Received  |
|------------|--------------|--------|----------------|----------------|
| 9281530001 | 07960 WSW 13 | Water  | 11/04/10 10:30 | 11/05/10 13:45 |
| 9281530002 | 07960 WSW 14 | Water  | 11/04/10 10:45 | 11/05/10 13:45 |
| 9281530003 | 07960 WSW 8  | Water  | 11/04/10 11:00 | 11/05/10 13:45 |
| 9281530004 | 07960 WSW 1  | Water  | 11/04/10 11:30 | 11/05/10 13:45 |

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab ID     | Sample ID    | Method   | Analysts | Analytes Reported | Laboratory |
|------------|--------------|----------|----------|-------------------|------------|
| 9281530001 | 07960 WSW 13 | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |
| 9281530002 | 07960 WSW 14 | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |
| 9281530003 | 07960 WSW 8  | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |
| 9281530004 | 07960 WSW 1  | EPA 8011 | RES      | 2                 | PASI-C     |
|            |              | EPA 8260 | MCK      | 21                | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

Page 4 of 14

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HITS ONLY

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab Sample ID<br>Method | Client Sample ID<br>Parameters          | Result | Units | Report Limit | Analyzed       | Qualifiers |
|-------------------------|---|--------|-------|--------------|----------------|------------|
| 9281530001<br>EPA 8260  | 07960 WSW 13<br>Methyl-tert-butyl ether | 0.32J  | ug/L  | 1.0          | 11/07/10 23:33 |            |
| 9281530002<br>EPA 8260  | 07960 WSW 14<br>Methyl-tert-butyl ether | 1.3    | ug/L  | 1.0          | 11/07/10 23:58 |            |
| 9281530003<br>EPA 8260  | 07960 WSW 8<br>tert-Amyl Alcohol        | 130    | ug/L  | 100          | 11/08/10 00:24 |            |
| EPA 8260                | 1,2-Dichloroethane                      | 8.7    | ug/L  | 1.0          | 11/08/10 00:24 |            |
| EPA 8260                | Diisopropyl ether                       | 0.23J  | ug/L  | 1.0          | 11/08/10 00:24 |            |
| EPA 8260                | Methyl-tert-butyl ether                 | 0.83J  | ug/L  | 1.0          | 11/08/10 00:24 |            |
| 9281530004<br>EPA 8260  | 07960 WSW 1<br>tert-Butyl Alcohol       | 7.5J   | ug/L  | 50.0         | 11/08/10 00:49 |            |
| EPA 8260                | 1,2-Dichloroethane                      | 2.6    | ug/L  | 1.0          | 11/08/10 00:49 |            |

REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

| Sample: 07960 WSW 13         |         | Lab ID: 9281530001                                       | Collected: 11/04/10 10:30 | Received: 11/05/10 13:45 | Matrix: Water |                |                |             |      |
|------------------------------|---------|--|---------------------------|--------------------------|---------------|----------------|----------------|-------------|------|
| Parameters                   | Results | Units  | Report                    |                          |               | Prepared       | Analyzed       | CAS No.     | Qual |
|                              |         |  | Limit                     | MDL                      | DF            |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b> |         | Analytical Method: EPA 8011 Preparation Method: EPA 8011 |                           |                          |               |                |                |             |      |
| 1,2-Dibromoethane (EDB)      | ND      | ug/L   | 0.019                     | 0.019                    | 1             | 11/07/10 14:30 | 11/07/10 15:56 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 99 %    |  | 60-140                    |                          | 1             | 11/07/10 14:30 | 11/07/10 15:56 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b> |         | Analytical Method: EPA 8260                              |                           |                          |               |                |                |             |      |
| tert-Amyl Alcohol            | ND      | ug/L   | 100                       | 50.0                     | 1             |                | 11/07/10 23:33 | 75-85-4     |      |
| tert-Amylmethyl ether        | ND      | ug/L   | 10.0                      | 0.10                     | 1             |                | 11/07/10 23:33 | 994-05-8    |      |
| Benzene                      | ND      | ug/L   | 1.0                       | 0.25                     | 1             |                | 11/07/10 23:33 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol       | ND      | ug/L   | 100                       | 50.0                     | 1             |                | 11/07/10 23:33 | 624-95-3    |      |
| tert-Butyl Alcohol           | ND      | ug/L   | 50.0                      | 3.6                      | 1             |                | 11/07/10 23:33 | 75-65-0     |      |
| tert-Butyl Formate           | ND      | ug/L   | 50.0                      | 1.9                      | 1             |                | 11/07/10 23:33 | 762-75-4    |      |
| 1,2-Dichloroethane           | ND      | ug/L   | 1.0                       | 0.12                     | 1             |                | 11/07/10 23:33 | 107-06-2    |      |
| Diisopropyl ether            | ND      | ug/L   | 1.0                       | 0.12                     | 1             |                | 11/07/10 23:33 | 108-20-3    |      |
| Ethanol                      | ND      | ug/L   | 200                       | 33.0                     | 1             |                | 11/07/10 23:33 | 64-17-5     |      |
| Ethylbenzene                 | ND      | ug/L   | 1.0                       | 0.30                     | 1             |                | 11/07/10 23:33 | 100-41-4    |      |
| Ethyl-tert-butyl ether       | ND      | ug/L   | 10.0                      | 0.070                    | 1             |                | 11/07/10 23:33 | 637-92-3    |      |
| Methyl-tert-butyl ether      | 0.32J   | ug/L   | 1.0                       | 0.21                     | 1             |                | 11/07/10 23:33 | 1634-04-4   |      |
| Naphthalene                  | ND      | ug/L   | 1.0                       | 0.24                     | 1             |                | 11/07/10 23:33 | 91-20-3     |      |
| Toluene                      | ND      | ug/L   | 1.0                       | 0.26                     | 1             |                | 11/07/10 23:33 | 108-88-3    |      |
| Xylene (Total)               | ND      | ug/L   | 2.0                       | 0.66                     | 1             |                | 11/07/10 23:33 | 1330-20-7   |      |
| m&p-Xylene                   | ND      | ug/L   | 2.0                       | 0.66                     | 1             |                | 11/07/10 23:33 | 179601-23-1 |      |
| o-Xylene                     | ND      | ug/L   | 1.0                       | 0.23                     | 1             |                | 11/07/10 23:33 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)     | 100 %   |  | 70-130                    |                          | 1             |                | 11/07/10 23:33 | 460-00-4    |      |
| Dibromofluoromethane (S)     | 101 %   |  | 70-130                    |                          | 1             |                | 11/07/10 23:33 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)    | 102 %   |  | 70-130                    |                          | 1             |                | 11/07/10 23:33 | 17060-07-0  |      |
| Toluene-d8 (S)               | 96 %    |  | 70-130                    |                          | 1             |                | 11/07/10 23:33 | 2037-26-5   |      |





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 Huntersville, NC 28078  
 (704)875-9092

**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

| Sample: 07960 WSW 14      Lab ID: 9281530002      Collected: 11/04/10 10:45      Received: 11/05/10 13:45      Matrix: Water |          |       |        |       |    |                |                |             |      |
|--|----------|-------|--------|-------|----|----------------|----------------|-------------|------|
| Parameters   | Results  | Units | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|  |          |       | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b>   |          |       |        |       |    |                |                |             |      |
| Analytical Method: EPA 8011    Preparation Method: EPA 8011  |          |       |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)  | ND ug/L  |       | 0.020  | 0.020 | 1  | 11/07/10 14:30 | 11/07/10 16:16 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 99 %     |       | 60-140 |       | 1  | 11/07/10 14:30 | 11/07/10 16:16 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b>   |          |       |        |       |    |                |                |             |      |
| Analytical Method: EPA 8260  |          |       |        |       |    |                |                |             |      |
| tert-Amyl Alcohol  | ND ug/L  |       | 100    | 50.0  | 1  |                | 11/07/10 23:58 | 75-85-4     |      |
| tert-Amylmethyl ether  | ND ug/L  |       | 10.0   | 0.10  | 1  |                | 11/07/10 23:58 | 994-05-8    |      |
| Benzene  | ND ug/L  |       | 1.0    | 0.25  | 1  |                | 11/07/10 23:58 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol   | ND ug/L  |       | 100    | 50.0  | 1  |                | 11/07/10 23:58 | 624-95-3    |      |
| tert-Butyl Alcohol   | ND ug/L  |       | 50.0   | 3.6   | 1  |                | 11/07/10 23:58 | 75-65-0     |      |
| tert-Butyl Formate   | ND ug/L  |       | 50.0   | 1.9   | 1  |                | 11/07/10 23:58 | 762-75-4    |      |
| 1,2-Dichloroethane   | ND ug/L  |       | 1.0    | 0.12  | 1  |                | 11/07/10 23:58 | 107-06-2    |      |
| Diisopropyl ether  | ND ug/L  |       | 1.0    | 0.12  | 1  |                | 11/07/10 23:58 | 108-20-3    |      |
| Ethanol  | ND ug/L  |       | 200    | 33.0  | 1  |                | 11/07/10 23:58 | 64-17-5     |      |
| Ethylbenzene   | ND ug/L  |       | 1.0    | 0.30  | 1  |                | 11/07/10 23:58 | 100-41-4    |      |
| Ethyl-tert-butyl ether   | ND ug/L  |       | 10.0   | 0.070 | 1  |                | 11/07/10 23:58 | 637-92-3    |      |
| Methyl-tert-butyl ether  | 1.3 ug/L |       | 1.0    | 0.21  | 1  |                | 11/07/10 23:58 | 1634-04-4   |      |
| Naphthalene  | ND ug/L  |       | 1.0    | 0.24  | 1  |                | 11/07/10 23:58 | 91-20-3     |      |
| Toluene  | ND ug/L  |       | 1.0    | 0.26  | 1  |                | 11/07/10 23:58 | 108-88-3    |      |
| Xylene (Total)   | ND ug/L  |       | 2.0    | 0.66  | 1  |                | 11/07/10 23:58 | 1330-20-7   |      |
| m&p-Xylene   | ND ug/L  |       | 2.0    | 0.66  | 1  |                | 11/07/10 23:58 | 179601-23-1 |      |
| o-Xylene   | ND ug/L  |       | 1.0    | 0.23  | 1  |                | 11/07/10 23:58 | 95-47-5     |      |
| 4-Bromofluorobenzene (S)   | 102 %    |       | 70-130 |       | 1  |                | 11/07/10 23:58 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 101 %    |       | 70-130 |       | 1  |                | 11/07/10 23:58 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)  | 100 %    |       | 70-130 |       | 1  |                | 11/07/10 23:58 | 17060-07-0  |      |
| Toluene-d8 (S)   | 96 %     |       | 70-130 |       | 1  |                | 11/07/10 23:58 | 2037-26-5   |      |





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**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| Sample: 07960 WSW 8      Lab ID: 9281530003      Collected: 11/04/10 11:00      Received: 11/05/10 13:45      Matrix: Water |         |       |              |       |    |                |                |             |      |
| 8011 GCS EDB and DBCP      Analytical Method: EPA 8011      Preparation Method: EPA 8011                                    |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/07/10 14:30 | 11/07/10 16:36 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)   | 100     | %     | 60-140       |       | 1  | 11/07/10 14:30 | 11/07/10 16:36 | 301-79-56   |      |
| 8260 MSV Low Level SC      Analytical Method: EPA 8260  |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol   | 130     | ug/L  | 100          | 50.0  | 1  |                | 11/08/10 00:24 | 75-85-4     |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 0.10  | 1  |                | 11/08/10 00:24 | 994-05-8    |      |
| Benzene   | ND      | ug/L  | 1.0          | 0.25  | 1  |                | 11/08/10 00:24 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 50.0  | 1  |                | 11/08/10 00:24 | 624-95-3    |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 50.0         | 3.6   | 1  |                | 11/08/10 00:24 | 75-65-0     |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 1.9   | 1  |                | 11/08/10 00:24 | 762-75-4    |      |
| 1,2-Dichloroethane  | 8.7     | ug/L  | 1.0          | 0.12  | 1  |                | 11/08/10 00:24 | 107-06-2    |      |
| Diisopropyl ether   | 0.23J   | ug/L  | 1.0          | 0.12  | 1  |                | 11/08/10 00:24 | 108-20-3    |      |
| Ethanol   | ND      | ug/L  | 200          | 33.0  | 1  |                | 11/08/10 00:24 | 64-17-5     |      |
| Ethylbenzene  | ND      | ug/L  | 1.0          | 0.30  | 1  |                | 11/08/10 00:24 | 100-41-4    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 0.070 | 1  |                | 11/08/10 00:24 | 637-92-3    |      |
| Methyl-tert-butyl ether   | 0.83J   | ug/L  | 1.0          | 0.21  | 1  |                | 11/08/10 00:24 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 1.0          | 0.24  | 1  |                | 11/08/10 00:24 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 1.0          | 0.26  | 1  |                | 11/08/10 00:24 | 108-88-3    |      |
| Xylene (Total)  | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 11/08/10 00:24 | 1330-20-7   |      |
| m&p-Xylene  | ND      | ug/L  | 2.0          | 0.66  | 1  |                | 11/08/10 00:24 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 1.0          | 0.23  | 1  |                | 11/08/10 00:24 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 101     | %     | 70-130       |       | 1  |                | 11/08/10 00:24 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 101     | %     | 70-130       |       | 1  |                | 11/08/10 00:24 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %     | 70-130       |       | 1  |                | 11/08/10 00:24 | 17060-07-0  |      |
| Toluene-d8 (S)  | 98      | %     | 70-130       |       | 1  |                | 11/08/10 00:24 | 2037-26-5   |      |





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**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

| Sample: 07960 WSW 1      Lab ID: 9281530004      Collected: 11/04/10 11:30      Received: 11/05/10 13:45      Matrix: Water |         |       |        |       |    |                |                |             |      |
|---|---------|-------|--------|-------|----|----------------|----------------|-------------|------|
| Parameters  | Results | Units | Report |       |    | Prepared       | Analyzed       | CAS No.     | Qual |
|   |         |       | Limit  | MDL   | DF |                |                |             |      |
| <b>8011 GCS EDB and DBCP</b>  |         |       |        |       |    |                |                |             |      |
| Analytical Method: EPA 8011      Preparation Method: EPA 8011   |         |       |        |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.020  | 0.020 | 1  | 11/07/10 14:31 | 11/07/10 16:56 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)   | 99 %    |       | 60-140 |       | 1  | 11/07/10 14:31 | 11/07/10 16:56 | 301-79-56   |      |
| <b>8260 MSV Low Level SC</b>  |         |       |        |       |    |                |                |             |      |
| Analytical Method: EPA 8260   |         |       |        |       |    |                |                |             |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100    | 50.0  | 1  |                | 11/08/10 00:49 | 75-85-4     |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0   | 0.10  | 1  |                | 11/08/10 00:49 | 994-05-8    |      |
| Benzene   | ND      | ug/L  | 1.0    | 0.25  | 1  |                | 11/08/10 00:49 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100    | 50.0  | 1  |                | 11/08/10 00:49 | 624-95-3    |      |
| tert-Butyl Alcohol  | 7.5J    | ug/L  | 50.0   | 3.6   | 1  |                | 11/08/10 00:49 | 75-65-0     |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0   | 1.9   | 1  |                | 11/08/10 00:49 | 762-75-4    |      |
| 1,2-Dichloroethane  | 2.6     | ug/L  | 1.0    | 0.12  | 1  |                | 11/08/10 00:49 | 107-06-2    |      |
| Diisopropyl ether   | ND      | ug/L  | 1.0    | 0.12  | 1  |                | 11/08/10 00:49 | 108-20-3    |      |
| Ethanol   | ND      | ug/L  | 200    | 33.0  | 1  |                | 11/08/10 00:49 | 64-17-5     |      |
| Ethylbenzene  | ND      | ug/L  | 1.0    | 0.30  | 1  |                | 11/08/10 00:49 | 100-41-4    |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0   | 0.070 | 1  |                | 11/08/10 00:49 | 637-92-3    |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 1.0    | 0.21  | 1  |                | 11/08/10 00:49 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 1.0    | 0.24  | 1  |                | 11/08/10 00:49 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 1.0    | 0.26  | 1  |                | 11/08/10 00:49 | 108-88-3    |      |
| Xylene (Total)  | ND      | ug/L  | 2.0    | 0.66  | 1  |                | 11/08/10 00:49 | 1330-20-7   |      |
| m&p-Xylene  | ND      | ug/L  | 2.0    | 0.66  | 1  |                | 11/08/10 00:49 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 1.0    | 0.23  | 1  |                | 11/08/10 00:49 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 103 %   |       | 70-130 |       | 1  |                | 11/08/10 00:49 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 102 %   |       | 70-130 |       | 1  |                | 11/08/10 00:49 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)   | 103 %   |       | 70-130 |       | 1  |                | 11/08/10 00:49 | 17060-07-0  |      |
| Toluene-d8 (S)  | 97 %    |       | 70-130 |       | 1  |                | 11/08/10 00:49 | 2037-26-5   |      |

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

QC Batch: OEXT/11768 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

METHOD BLANK: 524298 Matrix: Water  
 Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 11/07/10 14:55 |            |
| 1-Chloro-2-bromopropane (S) | %     | 99           | 60-140          | 11/07/10 14:55 |            |

LABORATORY CONTROL SAMPLE & LCSD: 524299 524300

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .28         | 0.30       | 0.31        | 106       | 108        | 60-140       | 2   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 100       | 101        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524301 524302

| Parameter                   | Units | 9281516001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | .28            | .28             | 0.31      | 0.31       | 110      | 110       | 60-140       | 0   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                   |                |                 |           |            | 110      | 110       | 60-140       |     |         |      |

SAMPLE DUPLICATE: 524303

| Parameter                   | Units | 9281516004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 117               | 115        | 0   |         |            |





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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

QC Batch: MSV12943 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

METHOD BLANK: 524256 Matrix: Water  
 Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 11/07/10 23:08 |            |
| Benzene                   | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Diisopropyl ether         | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Ethanol                   | ug/L  | ND           | 200             | 11/07/10 23:08 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 11/07/10 23:08 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| m&p-Xylene                | ug/L  | ND           | 2.0             | 11/07/10 23:08 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Naphthalene               | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| o-Xylene                  | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 11/07/10 23:08 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 11/07/10 23:08 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 50.0            | 11/07/10 23:08 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 11/07/10 23:08 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 11/07/10 23:08 |            |
| Xylene (Total)            | ug/L  | ND           | 2.0             | 11/07/10 23:08 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98           | 70-130          | 11/07/10 23:08 |            |
| 4-Bromofluorobenzene (S)  | %     | 101          | 70-130          | 11/07/10 23:08 |            |
| Dibromofluoromethane (S)  | %     | 98           | 70-130          | 11/07/10 23:08 |            |
| Toluene-d8 (S)            | %     | 97           | 70-130          | 11/07/10 23:08 |            |

LABORATORY CONTROL SAMPLE: 524257

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane      | ug/L  | 50          | 47.1       | 94        | 70-130       |            |
| 3,3-Dimethyl-1-Butanol  | ug/L  | 1000        | 1040       | 104       | 70-130       |            |
| Benzene                 | ug/L  | 50          | 51.0       | 102       | 70-130       |            |
| Diisopropyl ether       | ug/L  | 50          | 47.8       | 96        | 70-130       |            |
| Ethanol                 | ug/L  | 2000        | 1900       | 95        | 70-130       |            |
| Ethyl-tert-butyl ether  | ug/L  | 100         | 102        | 102       | 70-130       |            |
| Ethylbenzene            | ug/L  | 50          | 51.6       | 103       | 70-130       |            |
| m&p-Xylene              | ug/L  | 100         | 105        | 105       | 70-130       |            |
| Methyl-tert-butyl ether | ug/L  | 50          | 49.9       | 100       | 70-130       |            |
| Naphthalene             | ug/L  | 50          | 54.0       | 108       | 70-130       |            |
| o-Xylene                | ug/L  | 50          | 53.7       | 107       | 70-130       |            |
| tert-Amyl Alcohol       | ug/L  | 1000        | 1080       | 108       | 70-130       |            |
| tert-Amylmethyl ether   | ug/L  | 100         | 110        | 110       | 70-130       |            |
| tert-Butyl Alcohol      | ug/L  | 500         | 467        | 93        | 70-130       |            |
| tert-Butyl Formate      | ug/L  | 400         | 440        | 110       | 70-130       |            |
| Toluene                 | ug/L  | 50          | 51.5       | 103       | 70-130       |            |

Date: 11/08/2010 04:24 PM

**REPORT OF LABORATORY ANALYSIS**

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960  
 Pace Project No.: 9281530

LABORATORY CONTROL SAMPLE: 524257

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Xylene (Total)            | ug/L  | 150         | 159        | 106       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 90        | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 104       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 94        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524258 524259

| Parameter                 | Units | 9281530004 |       | MS          |       | MSD       |            | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual  |
|---------------------------|-------|------------|-------|-------------|-------|-----------|------------|----------|-----------|--------------|---------|-------|
|                           |       | Result     | Conc. | Spike Conc. | Conc. | MS Result | MSD Result |          |           |              |         |       |
| 1,2-Dichloroethane        | ug/L  | 2.6        | 50    | 50          | 50    | 52.7      | 57.5       | 100      | 110       | 70-130       | 9       | 30    |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND         | 1000  | 1000        | 1000  | 1000      | 1150       | 100      | 115       | 70-130       | 14      | 30    |
| Benzene                   | ug/L  | ND         | 50    | 50          | 50    | 52.9      | 56.6       | 106      | 113       | 70-130       | 7       | 30    |
| Diisopropyl ether         | ug/L  | ND         | 50    | 50          | 50    | 48.8      | 54.7       | 98       | 109       | 70-130       | 11      | 30    |
| Ethanol                   | ug/L  | ND         | 2000  | 2000        | 2000  | 1920      | 2170       | 96       | 109       | 70-130       | 12      | 30    |
| Ethyl-tert-butyl ether    | ug/L  | ND         | 100   | 100         | 100   | 103       | 116        | 103      | 116       | 70-130       | 12      | 30    |
| Ethylbenzene              | ug/L  | ND         | 50    | 50          | 50    | 55.4      | 58.4       | 111      | 117       | 70-130       | 5       | 30    |
| m&p-Xylene                | ug/L  | ND         | 100   | 100         | 100   | 113       | 121        | 113      | 121       | 70-130       | 7       | 30    |
| Methyl-tert-butyl ether   | ug/L  | ND         | 50    | 50          | 50    | 49.1      | 56.1       | 98       | 112       | 70-130       | 13      | 30    |
| Naphthalene               | ug/L  | ND         | 50    | 50          | 50    | 53.2      | 60.5       | 106      | 121       | 70-130       | 13      | 30    |
| o-Xylene                  | ug/L  | ND         | 50    | 50          | 50    | 56.7      | 60.9       | 113      | 122       | 70-130       | 7       | 30    |
| tert-Amyl Alcohol         | ug/L  | ND         | 1000  | 1000        | 1000  | 1070      | 1220       | 106      | 121       | 70-130       | 13      | 30    |
| tert-Amylmethyl ether     | ug/L  | ND         | 100   | 100         | 100   | 112       | 120        | 112      | 120       | 70-130       | 7       | 30    |
| tert-Butyl Alcohol        | ug/L  | 7.5J       | 500   | 500         | 500   | 502       | 582        | 99       | 115       | 70-130       | 15      | 30    |
| tert-Butyl Formate        | ug/L  | ND         | 400   | 400         | 400   | ND        | ND         | 0        | 0         | 70-130       |         | 30 P5 |
| Toluene                   | ug/L  | ND         | 50    | 50          | 50    | 55.4      | 57.7       | 111      | 115       | 70-130       | 4       | 30    |
| 1,2-Dichloroethane-d4 (S) | %     |            |       |             |       |           |            | 91       | 93        | 70-130       |         |       |
| 4-Bromofluorobenzene (S)  | %     |            |       |             |       |           |            | 104      | 104       | 70-130       |         |       |
| Dibromofluoromethane (S)  | %     |            |       |             |       |           |            | 92       | 95        | 70-130       |         |       |
| Toluene-d8 (S)            | %     |            |       |             |       |           |            | 102      | 99        | 70-130       |         |       |







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### QUALIFIERS

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.  
ND - Not Detected at or above adjusted reporting limit.  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit  
S - Surrogate  
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.





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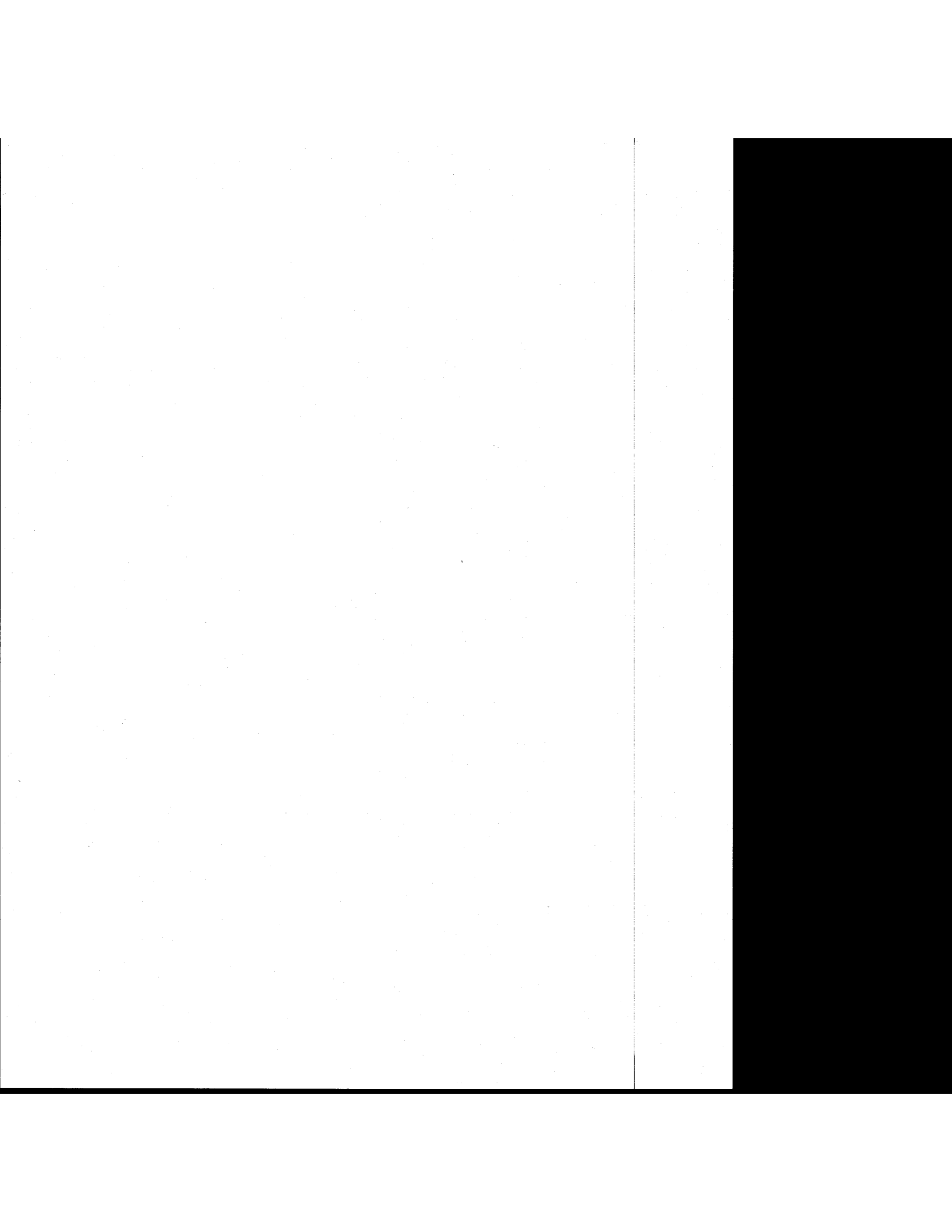
### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960  
Pace Project No.: 9281530

| Lab ID     | Sample ID    | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|--------------|-----------------|------------|-------------------|------------------|
| 9281530001 | 07960 WSW 13 | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530002 | 07960 WSW 14 | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530003 | 07960 WSW 8  | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530004 | 07960 WSW 1  | EPA 8011        | OEXT/11768 | EPA 8011          | GCSV/8691        |
| 9281530001 | 07960 WSW 13 | EPA 8260        | MSV/12943  |                   |                  |
| 9281530002 | 07960 WSW 14 | EPA 8260        | MSV/12943  |                   |                  |
| 9281530003 | 07960 WSW 8  | EPA 8260        | MSV/12943  |                   |                  |
| 9281530004 | 07960 WSW 1  | EPA 8260        | MSV/12943  |                   |                  |



APPENDIX B





Pace Analytical Services, Inc.  
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November 23, 2010

Ms. Christine Dupuis  
Environmental Compliance Servi  
13504 South Point Blvd  
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP  
Pace Project No.: 9282135

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com  
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: 378 TRUCK STOP  
Pace Project No.: 9282135

#### Charlotte Certification IDs

9800 Kinney Ave. Ste 100, Huntersville, NC 28078  
Louisiana/LELAP Certification #: 04034  
New Jersey Certification #: NC012  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
Pennsylvania Certification #: 68-00784  
South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003  
Virginia Certification #: 00213  
Connecticut Certification #: PH-0104  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DHH Drinking Water # LA 100031  
West Virginia Certification #: 357

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### SAMPLE SUMMARY

Project: 378 TRUCK STOP  
Pace Project No.: 9282135

| Lab ID     | Sample ID         | Matrix | Date Collected | Date Received  |
|------------|-------------------|--------|----------------|----------------|
| 9282135001 | WSW-8 PRE CARBON  | Water  | 11/12/10 14:15 | 11/15/10 15:40 |
| 9282135002 | WSW-8 POST CARBON | Water  | 11/12/10 14:20 | 11/15/10 15:40 |
| 9282135005 | MW-5A             | Water  | 11/12/10 15:10 | 11/15/10 15:40 |

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### SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP  
Pace Project No.: 9282135

| Lab ID     | Sample ID         | Method   | Analysts | Analytes Reported | Laboratory |
|------------|-------------------|----------|----------|-------------------|------------|
| 9282135001 | WSW-8 PRE CARBON  | EPA 8011 | RES      | 2                 | PASI-C     |
|            |                   | EPA 8260 | BLC      | 20                | PASI-C     |
| 9282135002 | WSW-8 POST CARBON | EPA 8011 | RES      | 2                 | PASI-C     |
|            |                   | EPA 8260 | BLC      | 20                | PASI-C     |
| 9282135005 | MW-5A             | EPA 8260 | MCK      | 9                 | PASI-C     |

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**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP  
 Pace Project No.: 9282135

| Sample: WSW-8 PRE CARBON    Lab ID: 9282135001    Collected: 11/12/10 14:15    Received: 11/15/10 15:40    Matrix: Water |         |       |              |       |    |                |                |             |      |
|--|---------|-------|--------------|-------|----|----------------|----------------|-------------|------|
| Parameters   | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.     | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011    Preparation Method: EPA 8011                                 |         |       |              |       |    |                |                |             |      |
| 1,2-Dibromoethane (EDB)  | ND      | ug/L  | 0.020        | 0.020 | 1  | 11/16/10 11:53 | 11/16/10 19:26 | 106-93-4    |      |
| 1-Chloro-2-bromopropane (S)  | 102     | %     | 60-140       |       | 1  | 11/16/10 11:53 | 11/16/10 19:26 | 301-79-56   |      |
| <b>8260 MSV Oxygenates</b> Analytical Method: EPA 8260   |         |       |              |       |    |                |                |             |      |
| tert-Amyl Alcohol  | 262     | ug/L  | 100          | 62.0  | 1  |                | 11/19/10 15:12 | 75-85-4     |      |
| tert-Amylmethyl ether  | ND      | ug/L  | 10.0         | 4.5   | 1  |                | 11/19/10 15:12 | 994-05-8    |      |
| Benzene  | ND      | ug/L  | 5.0          | 1.2   | 1  |                | 11/19/10 15:12 | 71-43-2     |      |
| 3,3-Dimethyl-1-Butanol   | ND      | ug/L  | 100          | 48.0  | 1  |                | 11/19/10 15:12 | 624-95-3    |      |
| tert-Butyl Alcohol   | ND      | ug/L  | 100          | 27.0  | 1  |                | 11/19/10 15:12 | 75-65-0     |      |
| tert-Butyl Formate   | ND      | ug/L  | 50.0         | 9.0   | 1  |                | 11/19/10 15:12 | 762-75-4    |      |
| 1,2-Dichloroethane   | 7.5     | ug/L  | 5.0          | 1.3   | 1  |                | 11/19/10 15:12 | 107-06-2    |      |
| Diisopropyl ether  | ND      | ug/L  | 5.0          | 2.7   | 1  |                | 11/19/10 15:12 | 108-20-3    |      |
| Ethanol  | ND      | ug/L  | 200          | 170   | 1  |                | 11/19/10 15:12 | 64-17-5     |      |
| Ethylbenzene   | ND      | ug/L  | 5.0          | 1.1   | 1  |                | 11/19/10 15:12 | 100-41-4    |      |
| Ethyl-tert-butyl ether   | ND      | ug/L  | 10.0         | 4.6   | 1  |                | 11/19/10 15:12 | 637-92-3    |      |
| Methyl-tert-butyl ether  | ND      | ug/L  | 5.0          | 2.0   | 1  |                | 11/19/10 15:12 | 1634-04-4   |      |
| Naphthalene  | ND      | ug/L  | 5.0          | 2.9   | 1  |                | 11/19/10 15:12 | 91-20-3     |      |
| Toluene  | ND      | ug/L  | 5.0          | 1.8   | 1  |                | 11/19/10 15:12 | 108-88-3    |      |
| m&p-Xylene   | ND      | ug/L  | 10.0         | 2.7   | 1  |                | 11/19/10 15:12 | 179601-23-1 |      |
| o-Xylene   | ND      | ug/L  | 5.0          | 1.7   | 1  |                | 11/19/10 15:12 | 95-47-6     |      |
| Dibromofluoromethane (S)   | 107     | %     | 70-130       |       | 1  |                | 11/19/10 15:12 | 1868-53-7   |      |
| Toluene-d8 (S)   | 98      | %     | 70-130       |       | 1  |                | 11/19/10 15:12 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)   | 95      | %     | 70-130       |       | 1  |                | 11/19/10 15:12 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)  | 105     | %     | 70-130       |       | 1  |                | 11/19/10 15:12 | 17060-07-0  |      |

| Sample: WSW-8 POST CARBON    Lab ID: 9282135002    Collected: 11/12/10 14:20    Received: 11/15/10 15:40    Matrix: Water |         |       |              |       |    |                |                |           |      |
|---|---------|-------|--------------|-------|----|----------------|----------------|-----------|------|
| Parameters  | Results | Units | Report Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011    Preparation Method: EPA 8011                                  |         |       |              |       |    |                |                |           |      |
| 1,2-Dibromoethane (EDB)   | ND      | ug/L  | 0.019        | 0.019 | 1  | 11/16/10 11:53 | 11/16/10 20:26 | 106-93-4  |      |
| 1-Chloro-2-bromopropane (S)   | 107     | %     | 60-140       |       | 1  | 11/16/10 11:53 | 11/16/10 20:26 | 301-79-56 |      |
| <b>8260 MSV Oxygenates</b> Analytical Method: EPA 8260  |         |       |              |       |    |                |                |           |      |
| tert-Amyl Alcohol   | ND      | ug/L  | 100          | 62.0  | 1  |                | 11/19/10 15:38 | 75-85-4   |      |
| tert-Amylmethyl ether   | ND      | ug/L  | 10.0         | 4.5   | 1  |                | 11/19/10 15:38 | 994-05-8  |      |
| Benzene   | ND      | ug/L  | 5.0          | 1.2   | 1  |                | 11/19/10 15:38 | 71-43-2   |      |
| 3,3-Dimethyl-1-Butanol  | ND      | ug/L  | 100          | 48.0  | 1  |                | 11/19/10 15:38 | 624-95-3  |      |
| tert-Butyl Alcohol  | ND      | ug/L  | 100          | 27.0  | 1  |                | 11/19/10 15:38 | 75-65-0   |      |
| tert-Butyl Formate  | ND      | ug/L  | 50.0         | 9.0   | 1  |                | 11/19/10 15:38 | 762-75-4  |      |
| 1,2-Dichloroethane  | ND      | ug/L  | 5.0          | 1.3   | 1  |                | 11/19/10 15:38 | 107-06-2  |      |
| Diisopropyl ether   | ND      | ug/L  | 5.0          | 2.7   | 1  |                | 11/19/10 15:38 | 108-20-3  |      |
| Ethanol   | ND      | ug/L  | 200          | 170   | 1  |                | 11/19/10 15:38 | 64-17-5   |      |
| Ethylbenzene  | ND      | ug/L  | 5.0          | 1.1   | 1  |                | 11/19/10 15:38 | 100-41-4  |      |

Date: 11/23/2010 03:59 PM

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: 378 TRUCK STOP  
 Pace Project No.: 9282135

| Sample: WSW-8 POST CARBON      Lab ID: 9282135002      Collected: 11/12/10 14:20      Received: 11/15/10 15:40      Matrix: Water |         |       |              |     |    |          |                |             |      |
|---|---------|-------|--------------|-----|----|----------|----------------|-------------|------|
| Parameters  | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed       | CAS No.     | Qual |
| <b>8260 MSV Oxygenates</b> Analytical Method: EPA 8260  |         |       |              |     |    |          |                |             |      |
| Ethyl-tert-butyl ether  | ND      | ug/L  | 10.0         | 4.6 | 1  |          | 11/19/10 15:38 | 637-92-3    |      |
| Methyl-tert-butyl ether   | ND      | ug/L  | 5.0          | 2.0 | 1  |          | 11/19/10 15:38 | 1634-04-4   |      |
| Naphthalene   | ND      | ug/L  | 5.0          | 2.9 | 1  |          | 11/19/10 15:38 | 91-20-3     |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.8 | 1  |          | 11/19/10 15:38 | 108-88-3    |      |
| m&p-Xylene  | ND      | ug/L  | 10.0         | 2.7 | 1  |          | 11/19/10 15:38 | 179601-23-1 |      |
| o-Xylene  | ND      | ug/L  | 5.0          | 1.7 | 1  |          | 11/19/10 15:38 | 95-47-6     |      |
| Dibromofluoromethane (S)  | 110     | %     | 70-130       |     | 1  |          | 11/19/10 15:38 | 1868-53-7   |      |
| Toluene-d8 (S)  | 99      | %     | 70-130       |     | 1  |          | 11/19/10 15:38 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)  | 93      | %     | 70-130       |     | 1  |          | 11/19/10 15:38 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)   | 105     | %     | 70-130       |     | 1  |          | 11/19/10 15:38 | 17060-07-0  |      |

| Sample: MW-5A      Lab ID: 9282135005      Collected: 11/12/10 15:10      Received: 11/15/10 15:40      Matrix: Water |         |       |              |     |    |          |                |             |      |
|---|---------|-------|--------------|-----|----|----------|----------------|-------------|------|
| Parameters  | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed       | CAS No.     | Qual |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |              |     |    |          |                |             |      |
| Benzene   | 118     | ug/L  | 5.0          | 1.2 | 1  |          | 11/16/10 08:48 | 71-43-2     |      |
| Ethylbenzene  | 2.3J    | ug/L  | 5.0          | 1.1 | 1  |          | 11/16/10 08:48 | 100-41-4    |      |
| Toluene   | ND      | ug/L  | 5.0          | 1.8 | 1  |          | 11/16/10 08:48 | 108-88-3    |      |
| m&p-Xylene  | 67.0    | ug/L  | 10.0         | 2.7 | 1  |          | 11/16/10 08:48 | 179601-23-1 |      |
| o-Xylene  | 16.0    | ug/L  | 5.0          | 1.7 | 1  |          | 11/16/10 08:48 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 102     | %     | 70-130       |     | 1  |          | 11/16/10 08:48 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 103     | %     | 70-130       |     | 1  |          | 11/16/10 08:48 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %     | 70-130       |     | 1  |          | 11/16/10 08:48 | 17060-07-0  |      |
| Toluene-d8 (S)  | 96      | %     | 70-130       |     | 1  |          | 11/16/10 08:48 | 2037-26-5   |      |





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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
 Pace Project No.: 9282135

QC Batch: OEXT/11883 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 9282135001, 9282135002

METHOD BLANK: 528402 Matrix: Water  
 Associated Lab Samples: 9282135001, 9282135002

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 0.020           | 11/16/10 18:25 |            |
| 1-Chloro-2-bromopropane (S) | %     | 105          | 60-140          | 11/16/10 18:25 |            |

LABORATORY CONTROL SAMPLE & LCSD: 528403 528404

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | .29         | 0.32       | 0.31        | 110       | 112        | 60-140       | 2   | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     |             |            |             | 103       | 105        | 60-140       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 528405 528406

| Parameter                   | Units | 9282135001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | .28            | .28             | 0.31      | 0.32       | 110      | 114       | 60-140       | 4   | 20      |      |
| 1-Chloro-2-bromopropane (S) | %     |                   |                |                 |           |            | 102      | 105       | 60-140       |     |         |      |

SAMPLE DUPLICATE: 528407

| Parameter                   | Units | 9282135002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------------|------------|-----|---------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                | ND         |     | 20      |            |
| 1-Chloro-2-bromopropane (S) | %     | 107               | 104        | 1   |         |            |

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**QUALITY CONTROL DATA**

Project: 378 TRUCK STOP  
 Pace Project No.: 9282135

QC Batch: MSV/13094 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC  
 Associated Lab Samples: 9282135001, 9282135002

METHOD BLANK: 530073 Matrix: Water  
 Associated Lab Samples: 9282135001, 9282135002

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane        | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND           | 100             | 11/19/10 09:16 |            |
| Benzene                   | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| Ethanol                   | ug/L  | ND           | 200             | 11/19/10 09:16 |            |
| Ethyl-tert-butyl ether    | ug/L  | ND           | 10.0            | 11/19/10 09:16 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 11/19/10 09:16 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| tert-Amyl Alcohol         | ug/L  | ND           | 100             | 11/19/10 09:16 |            |
| tert-Amylmethyl ether     | ug/L  | ND           | 10.0            | 11/19/10 09:16 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 11/19/10 09:16 |            |
| tert-Butyl Formate        | ug/L  | ND           | 50.0            | 11/19/10 09:16 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 11/19/10 09:16 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 101          | 70-130          | 11/19/10 09:16 |            |
| 4-Bromofluorobenzene (S)  | %     | 95           | 70-130          | 11/19/10 09:16 |            |
| Dibromofluoromethane (S)  | %     | 103          | 70-130          | 11/19/10 09:16 |            |
| Toluene-d8 (S)            | %     | 99           | 70-130          | 11/19/10 09:16 |            |

LABORATORY CONTROL SAMPLE: 530074

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane        | ug/L  | 50          | 60.0       | 120       | 70-130       |            |
| 3,3-Dimethyl-1-Butanol    | ug/L  | 1000        | 1080       | 108       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 55.2       | 110       | 70-130       |            |
| Diisopropyl ether         | ug/L  | 50          | 57.4       | 115       | 70-130       |            |
| Ethanol                   | ug/L  | 2000        | 2040       | 102       | 70-130       |            |
| Ethyl-tert-butyl ether    | ug/L  | 100         | 113        | 113       | 70-130       |            |
| Ethylbenzene              | ug/L  | 50          | 58.3       | 117       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 103        | 103       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 62.0       | 124       | 70-130       |            |
| Naphthalene               | ug/L  | 50          | 61.1       | 122       | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 61.3       | 123       | 70-130       |            |
| tert-Amyl Alcohol         | ug/L  | 1000        | 1280       | 128       | 70-130       |            |
| tert-Amylmethyl ether     | ug/L  | 100         | 115        | 115       | 70-130       |            |
| tert-Butyl Alcohol        | ug/L  | 500         | 698        | 140       | 70-130 L0    |            |
| tert-Butyl Formate        | ug/L  | 400         | 558        | 139       | 70-130 L0    |            |
| Toluene                   | ug/L  | 50          | 56.4       | 113       | 70-130       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 104       | 70-130       |            |

Date: 11/23/2010 03:59 PM

**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc.  
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 Asheville, NC 28804  
 (828)254-7176

Pace Analytical Services, Inc.  
 9800 Kinsey Ave. Suite 100  
 Huntersville, NC 28078  
 (704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP  
 Pace Project No.: 9282135

LABORATORY CONTROL SAMPLE: 530074

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | %     |             |            | 100       | 70-130       |            |
| Dibromofluoromethane (S) | %     |             |            | 101       | 70-130       |            |
| Toluene-d8 (S)           | %     |             |            | 98        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 530075 530076

| Parameter                 | Units | 9282235004 |       | MS          | MSD         | MS     | MSD    | % Rec | % Rec  | % Rec Limits | Max |     | Qual |
|---------------------------|-------|------------|-------|-------------|-------------|--------|--------|-------|--------|--------------|-----|-----|------|
|                           |       | Result     | Conc. | Spike Conc. | Spike Conc. | Result | Result |       |        |              | RPD | RPD |      |
| 1,2-Dichloroethane        | ug/L  | ND         | 50    | 50          | 40.4        | 48.4   | 81     | 97    | 70-130 | 18           | 30  |     |      |
| 3,3-Dimethyl-1-Butanol    | ug/L  | ND         | 1000  | 1000        | 629         | 708    | 63     | 71    | 70-130 | 12           | 30  | M0  |      |
| Benzene                   | ug/L  | ND         | 50    | 50          | 38.1        | 45.5   | 76     | 91    | 70-130 | 18           | 30  |     |      |
| Diisopropyl ether         | ug/L  | ND         | 50    | 50          | 36.3        | 45.3   | 73     | 91    | 70-130 | 22           | 30  |     |      |
| Ethanol                   | ug/L  | ND         | 2000  | 2000        | 1280        | 1440   | 64     | 72    | 70-130 | 12           | 30  | M0  |      |
| Ethyl-tert-butyl ether    | ug/L  | ND         | 100   | 100         | 72.6        | 89.9   | 73     | 90    | 70-130 | 21           | 30  |     |      |
| Ethylbenzene              | ug/L  | ND         | 50    | 50          | 38.0        | 46.2   | 76     | 92    | 70-130 | 20           | 30  |     |      |
| m&p-Xylene                | ug/L  | ND         | 100   | 100         | 67.8        | 81.8   | 68     | 82    | 70-130 | 19           | 30  | M0  |      |
| Methyl-tert-butyl ether   | ug/L  | ND         | 50    | 50          | 38.5        | 47.7   | 77     | 95    | 70-130 | 21           | 30  |     |      |
| Naphthalene               | ug/L  | ND         | 50    | 50          | 35.8        | 44.9   | 72     | 90    | 70-130 | 23           | 30  |     |      |
| o-Xylene                  | ug/L  | ND         | 50    | 50          | 38.3        | 47.5   | 77     | 95    | 70-130 | 21           | 30  |     |      |
| tert-Amyl Alcohol         | ug/L  | ND         | 1000  | 1000        | 771         | 844    | 77     | 84    | 70-130 | 9            | 30  |     |      |
| tert-Amylmethyl ether     | ug/L  | ND         | 100   | 100         | 74.0        | 90.6   | 74     | 91    | 70-130 | 20           | 30  |     |      |
| tert-Butyl Alcohol        | ug/L  | ND         | 500   | 500         | 559         | 618    | 112    | 124   | 70-130 | 10           | 30  |     |      |
| tert-Butyl Formate        | ug/L  | ND         | 400   | 400         | ND          | ND     | 0      | 0     | 70-130 |              | 30  | P5  |      |
| Toluene                   | ug/L  | ND         | 50    | 50          | 37.2        | 45.6   | 74     | 91    | 70-130 | 20           | 30  |     |      |
| 1,2-Dichloroethane-d4 (S) | %     |            |       |             |             |        |        | 104   | 104    | 70-130       |     |     |      |
| 4-Bromofluorobenzene (S)  | %     |            |       |             |             |        |        | 96    | 97     | 70-130       |     |     |      |
| Dibromofluoromethane (S)  | %     |            |       |             |             |        |        | 101   | 101    | 70-130       |     |     |      |
| Toluene-d8 (S)            | %     |            |       |             |             |        |        | 99    | 100    | 70-130       |     |     |      |





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## QUALIFIERS

Project: 378 TRUCK STOP  
Pace Project No.: 9282135

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Date: 11/23/2010 03:59 PM

## REPORT OF LABORATORY ANALYSIS

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Page 10 of 11



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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP  
Pace Project No.: 9282135

| Lab ID     | Sample ID         | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|-------------------|-----------------|------------|-------------------|------------------|
| 9282135001 | WSW-8 PRE CARBON  | EPA 8011        | OEXT/11883 | EPA 8011          | GCSV/8743        |
| 9282135002 | WSW-8 POST CARBON | EPA 8011        | OEXT/11883 | EPA 8011          | GCSV/8743        |
| 9282135005 | MW-5A             | EPA 8260        | MSV/13054  |                   |                  |
| 9282135001 | WSW-8 PRE CARBON  | EPA 8260        | MSV/13094  |                   |                  |
| 9282135002 | WSW-8 POST CARBON | EPA 8260        | MSV/13094  |                   |                  |





**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **ECS** Address: **13024 Spaint Blvd Charlotte NC** Project: **Speedy ECS Consult Con** Requested Due Date/TAT: **04/23/10**

Section B Required Project Information: Report To: **Christie Dupuis** Copy To: **Christie Dupuis** Purchase Order No.: **14-214210** Project Name: **378 Truck St** Project Number: **14-21420**

Section C Invoice Information: Attention: **Christina White** Company Name: **ECS** Address: **Asheville, NC** Pace Quote Reference: **Kevin Herrin** Pace Project Manager: **Kevin Herrin** Pace Profile #:

REGULATORY AGENCY:  NPDES  GROUND WATER  DRINKING WATER  CUST  RCRA  OTHER:  Site Location: **SC** STATE: **SC**

Page: **1** of **1**  
**1406825**

| ITEM # | Section D Required Client Information | Matrix Codes MATRIX / CODE | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES |      | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|---------------------------------------|----------------------------|-----------|------|---------------------------|-----------------|---------------|------|---------------|-----------------------------------|-------------------------|----------------------------|
|        |                                       |                            | DATE      | TIME |                           |                 | DATE          | TIME |               |                                   |                         |                            |
| 1      | W-5-8 THE CARBON                      | DW                         | 11/12     | 1415 | 6                         | X               |               | X    |               |                                   | 4282135001              |                            |
| 2      | W-5-8 FOST CARBON                     | WT                         | 11/12     | 1415 | 6                         | X               |               | X    |               |                                   | 002                     |                            |
| 3      | MU-2                                  | WW                         | 11/12     | 1415 | 6                         | X               |               | X    |               |                                   | 003                     |                            |
| 4      | MU-5-B                                | SL                         | 11/12     | 1512 | 6                         | X               |               | X    |               |                                   | 004                     |                            |
| 5      | MU-5-A                                | WP                         | 11/12     | 1510 | 3                         | X               |               | X    |               |                                   | 005                     |                            |
| 6      |                                       | AF                         |           |      |                           |                 |               |      |               |                                   |                         |                            |
| 7      |                                       | AR                         |           |      |                           |                 |               |      |               |                                   |                         |                            |
| 8      |                                       | TS                         |           |      |                           |                 |               |      |               |                                   |                         |                            |
| 9      |                                       | OT                         |           |      |                           |                 |               |      |               |                                   |                         |                            |
| 10     |                                       |                            |           |      |                           |                 |               |      |               |                                   |                         |                            |
| 11     |                                       |                            |           |      |                           |                 |               |      |               |                                   |                         |                            |
| 12     |                                       |                            |           |      |                           |                 |               |      |               |                                   |                         |                            |

ADDITIONAL COMMENTS: **Relinquished by Affiliation**

DATE SIGNED: **11/12/10** TIME: **17:55** ACCEPTED BY: **Christina White** DATE: **11/12/10** TIME: **12:25** SAMPLE CONDITIONS: **4.1**

TEMPERATURE: **4.1** RECEIVED ON ICE (Y/N): **Y** CUSTODY SEALED COOLER (Y/N): **N** SAMPLES INTACT (Y/N): **Y**

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007



**Sample Condition Upon Receipt**

Face Analytical

Client Name: ECOS Project # 9282135

Where Received:  Huntersville  Asheville  Eden  
 Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_  
 Thermometer Used: IR Gun : T809 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun  
 Temp Correction Factor: Add / Subtract 0 C

|                 |
|-----------------|
| Optional        |
| Proj. Due Date: |
| Proj. Name:     |

Corrected Cooler Temp.: 4.1 C Biological Tissue is Frozen: Yes No  
 Temp should be above freezing to 6°C Date and Initials of person examining contents: 11/15/10 [Signature]

|  | Comments:              |
|--|------------------------|
| Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 1.                     |
| Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 2.                     |
| Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 3.                     |
| Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 4.                     |
| Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   | 5.                     |
| Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 6.                     |
| Rush Turn Around Time Requested: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 7.                     |
| Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 8.                     |
| Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 9.                     |
| Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   |                        |
| Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 10.                    |
| Filtered volume received for Dissolved tests: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   | 11.                    |
| Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 12.                    |
| -Includes date/time/ID/Analysis Matrix: <u>WT</u>  |                        |
| If containers needing preservation have been checked: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                     | 13.                    |
| If containers needing preservation are found to be in compliance with EPA recommendation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                        |
| Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) <input type="checkbox"/> Yes <input type="checkbox"/> No   | Initial when completed |
| Samples checked for dechlorination: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   | 14.                    |
| Lead space in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   | 15.                    |
| Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   | 16.                    |
| Trip Blank Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   |                        |
| Face Trip Blank Lot # (if purchased): _____  |                        |

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

iCURF Review: [Signature] Date: 11/15/10 SRF Review: [Signature] Date: 11/16/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

# GAC Unit Installation and Maintenance

Date: 3/5/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #  
Controller #



## NEW INSTALLATION

Date Installation Completed: \_\_\_\_\_

- Attachments Required
- schematic of system as installed
  - copy of analytical data for pre and post GAC samples
  - calculations of filter change
  - calculations of breakthrough



## MAINTENANCE AND SERVICE

FILTER CHANGE

Filter Disposal Method: \_\_\_\_\_

Condition of GAC Unit        X   In Need of Repair\*      \_\_\_\_\_ Good

Condition of GAC Housing      \_\_\_\_\_ In Need of Repair\*        X   Good

\*Repairs Needed: GAC head needs to be replaced.

SERVICE/REPAIR CALL

Service or Repair Provided: GAC head malfunctioned and was stuck in backwash mode. Reset head to normal service and unplugged head to prevent it from becoming stuck again.

SAMPLE COLLECTION

Pre-GAC

Mid-GAC

Pre-GAC DUP

Post-GAC

Comments: Received call on March 5th about potential malfunctioning GAC unit. Stopped by and determined that it was stuck in backwash mode. Was able to temporarily correct the issue until unit could be replaced. 1.5 hours of service call used to diagnose problem. CA #59251

# GAC Unit Installation and Maintenance

Date: 3/20/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #  
Controller #

## NEW INSTALLATION

Date Installation Completed: \_\_\_\_\_

- Attachments Required
- schematic of system as installed
  - copy of analytical data for pre and post GAC samples
  - calculations of filter change
  - calculations of breakthrough

## MAINTENANCE AND SERVICE

### FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit                                           In Need of Repair\*                        X   Good

Condition of GAC Housing                                           In Need of Repair\*                        X   Good

\*Repairs Needed:

### SERVICE/REPAIR CALL

Service or Repair Provided: Replaced malfunctioning GAC head with properly working head.

### SAMPLE COLLECTION

Pre-GAC

Mid-GAC

Pre-GAC DUP

Post-GAC

Comments: During head replacement a full carbon change had to be performed. When removing the bad head for replacement the dip tube came up with it. Was not able to reset tube without removing carbon. 2.5 hours of service call used to replace GAC head and perform carbon change. CA #59251

# GAC Maintenance Report

Permit # 07960  
 Emerald Job # 262

| Address   | Serial # | Model # | Date Serviced | Condition of Unit  | Samples Collected   |
|---|----------|---------|---------------|--|---|
| 730 Hwy 378 East, Edgefield, SC<br>Scurry Residence |          |         | 3/5/19        | Needs Repairs <input checked="" type="checkbox"/><br>Good <input type="checkbox"/> | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
| 730 Hwy 378 East, Edgefield, SC<br>Scurry Residence |          |         | 3/20/19       | Needs Repairs <input type="checkbox"/><br>Good <input checked="" type="checkbox"/> | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |
|   |          |         |               | Needs Repairs <input type="checkbox"/><br>Good <input type="checkbox"/>            | Pre-GAC <input type="checkbox"/><br>Dup-GAC <input type="checkbox"/><br>Mid-GAC <input type="checkbox"/><br>Post-GAC <input type="checkbox"/> |

**Notes:**

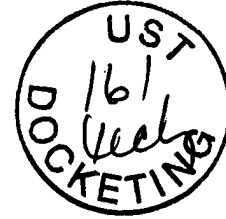
Filter Disposal Method: Landfill

Service/Repairs: Replaced malfunctioning GAC head with working GAC head. Performed a full carbon change.

Comments: CA #59251



JUN 13 2019



RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

Re: **Site Specific Work Plan Request for Multiple GAC Change and Groundwater Sample Collection**

378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit #07960  
Release reported October 3, 1974  
Monitoring Report received October 16, 2017  
Edgefield County

Dear Mr. Lowder:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report. The report indicates the presence of chemicals of concern (CoCs) in the groundwater.

To ensure a clean source of drinking water, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Granular Activated Carbon (GAC) Unit sampling and filter change event as outlined in the current revision of the UST Quality Assurance Program Plan (QAPP) is necessary. **Implementation of 6 filter changes and groundwater samplings should occur at 2-month intervals.** This scope of work should be conducted on the Scurry water supply well located at 730 Highway 378 East, and the Gordon water supply well located at 724 Highway 378 East in accordance with the UST QAPP and in compliance with all applicable regulations. Pre-and post- GAC samples should be collected prior to the filter change and analyzed for BTEX, Mtbe, Naphthalene, 1,2-DCA, the Oxygenates, Ethanol, and EDB. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. A copy of the DHEC QAPP for the UST Management Division is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance>.

**Please complete and submit the Site-Specific Work Plan and Cost Proposal to the UST Division within fifteen (15) days of the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from DHEC must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #07960. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-2831, by fax at (803) 898-0673, or by e-mail to nguyens@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Nguyen', with a long horizontal flourish extending to the right.

Sharlen Nguyen, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Site Information

cc: Adam Looper, UST Management Division (w/o enc)  
Technical File (w/o enc)

# Emerald, Inc.

CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

WEBSITE:  
www.emeraldinc-us.com

June 20, 2019

TELEPHONE (803) 469-5454  
FAX (803) 469-5465

Sharlen Nguyen, Hydrogeologist  
Corrective Action and Field Support Section  
Underground Storage Tank Management  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201



Site Specific Work Plan  
378 Truck Stop  
731 Highway 378  
Edgefield, South Carolina  
SCDHEC Site ID #07960

Ms. Nguyen,

Please find the attached Site Specific Work Plan, proposed costs and example chain of custody for one year of Granular Activated Carbon (GAC) filter changes and sampling. These GACs are associated with the Scurry residence located at 730 Highway 378 East and Gordon residence located at 724 Highway 378 East in Edgefield, SC. If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,

William C. McClary, P.G.  
Project Manager

Attachments  
Appendix A - Site Specific Work Plan  
Appendix B - Example Chain of Custody  
Appendix C - Proposed Costs  
Appendix D - Site Map

**Appendix A**  
**Site Specific Work Plan**





Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Sharlen Nguyen, Hydrogeologist (SCDHEC Project Manager)
From: Chad McClary, P.G. (Contractor Project Manager)
Contractor: Emerald, Inc. UST Contractor Certification Number: 67

Facility Name: 378 Truck Stop UST Permit #: 07960
Facility Address: 731 Highway 378, Edgefield, SC
Responsible Party: Phone:
RP Address:
Property Owner (if different):
Property Owner Address:
Current Use of Property:

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, GAC, Other

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, Oil & Grease, RCRA Metals, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Soil 4 (24) Water Supply Wells Air 1 (6) Field Blank
Monitoring Wells Surface Water 1 (6) Duplicate 1 (6) Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: Estimated Footage: feet per point
# of deep points proposed: Estimated Footage: feet per point
Field Screening Methodology:

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: Estimated Footage: feet per point
# of deep wells: Estimated Footage: feet per point
# of recovery wells: Estimated Footage: feet per point
Comments, if warranted:

UST Permit #: 07960 Facility Name: 378 Truck Stop

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 15 Field Work Completion: 360  
Report Submittal: 365 # of Copies Provided to Property Owners: \_\_\_\_\_

**Aquifer Characterization**  
Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**  
Soil: \_\_\_\_\_ Tons Purge Water: \_\_\_\_\_ Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**  
For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
The subject site (378 Truck Stop) is located at 731 Highway 378 outside Edgefield, SC. Two nearby water supply wells (Scurry and Gordon) have been impacted by petroleum contamination. Each water supply well (WSW) has been attached to granular activated carbon (GAC) filters to aid in removal of petroleum contaminants. Prior to conducting a carbon change, Emerald, Inc. will collect samples from the Scurry and Gordon WSWs before filtering (Pre GAC) and after passing through the filter (Post GAC). The duplicate sample will be collected from the Scurry Pre-GAC sampling port.  
This work will be conducted under PO #4600702267.  
The samples will be collected after opening the spigot for approximately 10 minutes or until the well pump turns on.  
Samples will be collected by allowing the well water to pour directly into laboratory supplied sampling containers.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_  
  
\_\_\_\_ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_  
  
\_\_\_\_ Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**  
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.  
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations  
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

**Appendix B**  
**Example Chain of Custody**



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: \_\_\_\_\_ of \_\_\_\_\_

|  |  |   |  |  |  |  |  |
|--|--|---|--|--|--|--|--|
| <b>Section A</b><br>Required Client Information: |  | <b>Section B</b><br>Required Project Information: |  | <b>Section C</b><br>Invoice Information: |  |  |  |
| Company: SCDHEC                                  |  | Report To: A. Thrash                              |  | Attention:                               |  |  |  |
| Address: 2600 BULL STREET<br>COLUMBIA, SC 29201  |  | Copy To:  |  | Company Name:                            |  | <b>REGULATORY AGENCY</b>   |  |
| Email To: thrasham@dhec.sc.gov                   |  | Purchase Order No.:                               |  | Address:                                 |  | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ |  |
| Phone: 803-898-0589    Fax:                      |  | Project Name: 378 Truck Stop                      |  | Pace Quote Reference:                    |  | Site Location  |  |
| Requested Due Date/TAT:                          |  | Project Number: SCDHEC SITE ID# 07960, PACE CA#   |  | Pace Project Manager: T. CARTER          |  | STATE: SC  |  |
|  |  |   |  | Pace Profile #:                          |  |  |  |

| ITEM # | Section D<br>Required Client Information | Valid Matrix Codes<br>MATRIX CODE | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          | Requested Analysis Filtered (Y/N) |                 |                             |               | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |              |  |
|--------|--|-----------------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-----------------------------------|-----------------|-----------------------------|---------------|-------------------------|----------------------------|--------------|--|
|        |  |                                   | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other                             | [Analysis Test] |                             |               |                         |                            |              |  |
|        |  |                                   | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |          |                                   |                 | BTEX, N, H, 1-2DCA by 524.2 | OXYs by 8260B |                         |                            | EDB by 504.2 |  |
| 1      | 07960 SCURRY PRE-GAC                     | WT                                | G               |      |                    |      | 9                         |                 |               | 9                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 2      | 07960 SCURRY PRE GAC DUP                 | WT                                | G               |      |                    |      | 9                         |                 |               | 9                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 3      | 07960 SCURRY POST GAC                    | WT                                | G               |      |                    |      | 9                         |                 |               | 9                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 4      | 07960 GORDON PRE-GAC                     | WT                                | G               |      |                    |      | 9                         |                 |               | 9                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 5      | 07960 GORDON POST GAC                    | WT                                | G               |      |                    |      | 9                         |                 |               | 9                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 6      | 07960 FIELD BLANK                        | WT                                | G               |      |                    |      | 9                         |                 |               | 9                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 7      | 07960 TRIP BLANK                         | WT                                | G               |      |                    |      | 6                         |                 |               | 6                              |                  |     |      |   |          | X                                 | X               | X                           |               |                         |                            |              |  |
| 8      |  |                                   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                   |                 |                             |               |                         |                            |              |  |
| 9      |  |                                   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                   |                 |                             |               |                         |                            |              |  |
| 10     |  |                                   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                   |                 |                             |               |                         |                            |              |  |
| 11     |  |                                   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                   |                 |                             |               |                         |                            |              |  |
| 12     |  |                                   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |                                   |                 |                             |               |                         |                            |              |  |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|------|------|---------------------------|------|------|-------------------|
|                     |                               |      |      |                           |      |      |                   |
|                     |                               |      |      |                           |      |      |                   |
|                     |                               |      |      |                           |      |      |                   |

|                                   |  |  |                         |            |                       |                             |                      |
|-----------------------------------|--|--|-------------------------|------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b> |  |  |                         | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER:            |  |  | DATE Signed (MM/DD/YY): |            |                       |                             |                      |
| SIGNATURE of SAMPLER:             |  |  |                         |            |                       |                             |                      |

Appendix C  
Proposed Costs



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO#4600702267**

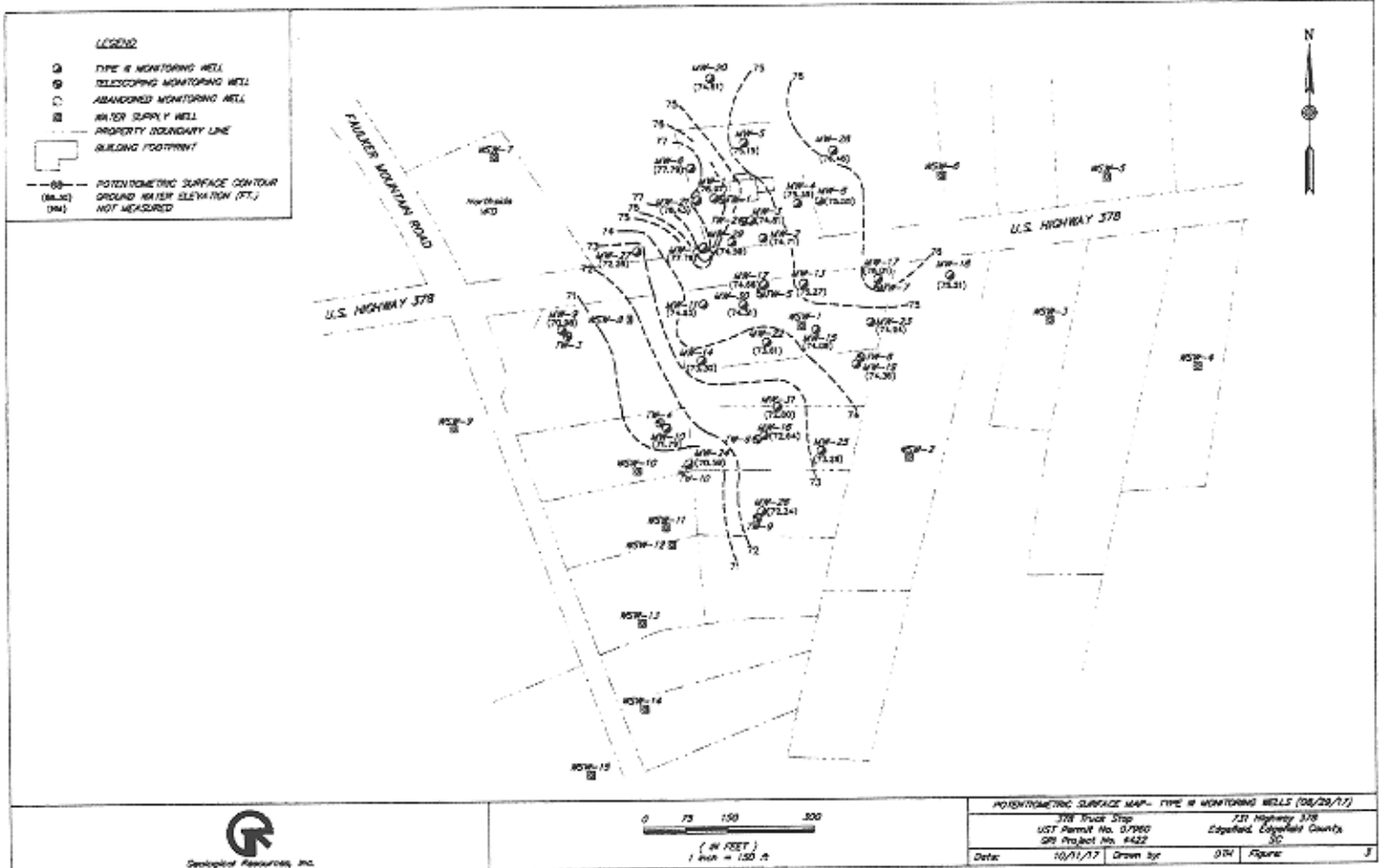
**Facility Name:** 378 Truck Stop

**UST Permit #:** 07960

**Cost Agreement #:** \_\_\_\_\_

| ITEM  | QUANTITY | UNIT     | UNIT PRICE | TOTAL              |
|---|----------|----------|------------|--------------------|
| <b>1. Plan Preparation</b>  |          |          |            |                    |
| A1. Site-specific Work Plan   | 1        | each     | \$150.00   | \$150.00           |
| <b>4. Mob/Demob</b>   |          |          |            |                    |
| B1. Personnel   | 6        | each     | \$200.00   | \$1,200.00         |
| <b>18. Miscellaneous (attach receipts)</b>  |          |          |            |                    |
| Service charge to remove and replace carbon/gravel filter in large operating units            |          | each     | \$1,750.00 | \$0.00             |
| Removal, cleaning, refurbishment and storage - of large capacity GAC units                    |          | each     | \$1,200.00 | \$0.00             |
| Service calls to reset, repair, other service of GAC  |          | hours    | \$48.00    | \$0.00             |
| Lock assemblage for existing GAC housing to include lock and all necessary hardware and labor |          | each     | \$15.00    | \$0.00             |
| sample collection measurements to include, duplicate, field/trip blanks are included          | 24       | each     | \$35.00    | \$840.00           |
| Emergency Bottled Water   |          | per week | \$500.00   | \$0.00             |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b>        |          |          |            |                    |
| A1. New GAC System Installation   |          | each     | \$2,800.00 | \$0.00             |
| BB. Refurbished GAC Sys. Install  |          | each     | \$1,600.00 | \$0.00             |
| C1. Filter replacement/removal  | 12       | each     | \$675.00   | \$8,100.00         |
| DD. GAC System removal, cleaning, & refurbishment   |          | each     | \$550.00   | \$0.00             |
| E1. GAC System housing  |          | each     | \$275.00   | \$0.00             |
| F. In-line particulate filter   |          | each     | \$200.00   | \$0.00             |
| G1. Additional piping, wiring & fittings  |          | foot     | \$1.50     | \$0.00             |
| <b>TOTAL</b>  |          |          |            | <b>\$10,290.00</b> |

Appendix D  
Site Map











Healthy People. Healthy Communities.

RONNY LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151

JUL 12 2019



**Re: Notice to Proceed-GAC Change and Groundwater Sample Collection**  
378 Truck Stop, 731 Hwy 378, Edgefield, SC  
UST Permit #07960; Emerald CA #59930; Pace CA #59931  
IFB-5400017572-4/25/19-EMW; PO #4600702267  
Site-Specific Work Plan received June 24, 2019  
Edgefield County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, collection of pre- and post- GAC unit groundwater samples has been approved for the Scurry residence located at 730 Highway 378 East and the Gordon residence located at 724 Highway 378 East. The pre- and post- GAC unit groundwater samples should be collected and submitted to Pace Analytical Services for analysis.

This facility has been assigned individual Cost Agreement (CA) numbers as listed above. Please reference the CA #59930 and PO #4600702267 on the invoice submitted for payment. Emerald, Inc. should complete the work in accordance with the contract specifications and established schedule. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulation. A GAC Unit Installation and Maintenance record should be submitted within **fifteen (15) days** from the date of Notice to Proceed.

On all correspondence or inquiries regarding this directive, please reference UST Permit #07960, CA #59930, and CA #59931. If you have any questions or need further assistance, please contact me at (803) 898-2831 or by email at [nguyens@dhec.sc.gov](mailto:nguyens@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nguyen".

Sharlen Nguyen, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Brad Baldwin, UST Management Division (w/o enc)  
Pace Analytical Services, 9800 Kinsey Avenue, Ste 100, Huntersville NC 28078 (w/o enc)  
Technical File (w/ enc)

**Approved Cost Agreement****59930**

Facility: 07960 378 TRUCK STOP

NGUYENS

PO Number:

| <u>Task/Description</u> | <u>Categories</u> | <u>Item Description</u>                    | <u>Qty / Pct</u>    | <u>Unit Price</u> | <u>Amount</u>    |
|-------------------------|-------------------|--|---------------------|-------------------|------------------|
| 01 PLAN                 |                   | A1 SITE SPECIFIC WORK PLAN                 | 1.0000              | \$150.000         | 150.00           |
| 04 MOB/DEMOB            |                   | B1 PERSONNEL                               | 6.0000              | \$200.000         | 1,200.00         |
| 18 MISCELLANEOUS        |                   | SAMPLE COLLECT MEASUREMENTS W/ DUPLICATE F | 24.0000             | \$35.000          | 840.00           |
| 24 GAC SYSTEM           |                   | C1 FILTER REPLACEMENT/REMOVAL              | 12.0000             | \$675.000         | 8,100.00         |
|                         |                   |  | <b>Total Amount</b> |                   | <b>10,290.00</b> |

**Approved Cost Agreement      59931**

Facility: 07960 378 TRUCK STOP

NGUYENS

PO Number:

| <u>Task / Description</u> | <u>Categories</u>    | <u>Item Description</u>          | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u>   |
|---------------------------|----------------------|----------------------------------|------------------|-------------------|-----------------|
| 11 ANALYSES               |                      |                                  |                  |                   |                 |
|                           | WATER DRINKING WATER | L BTEXNM+1,2 DCA (524.2)         | 42.0000          | \$36.000          | 1,512.00        |
|                           |                      | M 7-OXYGENATES & ETHANOL (8260B) | 42.0000          | \$13.000          | 546.00          |
|                           |                      | N EDB (504.1)                    | 36.0000          | \$18.000          | 648.00          |
|                           |                      | <b>Total Amount</b>              |                  |                   | <b>2,706.00</b> |

07960



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Wilkerson Fuel Company
Address: PO Box 2835
City: Rock Hill State: SC Zip: 29732

2. LOCATION OF WELL: TW-11 COUNTY: Edgefield
Name: 378 Truck Stop
Street Address: 731 Highway 378
City: Edgefield Zip: 29824
Latitude: 33.937110 Longitude: 81.951158

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: Yes No
Grouted Depth: from ft. to ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Rows include Topsoil, Brown Clayey Fine Sand, Tan Sandy Clay, Gray Rock, etc.

5. REMARKS:
Bentonite 51'-53'

6. TYPE: Mud Rotary, Dug, Cable tool, Jetted, Air Rotary, Other, Bored, Driven

7. PERMIT NUMBER: UST# 07960, Well Permit # UMW27273

8. USE: Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well, Replacement

9. WELL DEPTH (completed) 60 ft. Date Started: 5/20/2019 Date Completed: 5/22/2019

10. CASING: Threaded, Welded, Diam.: 2, Type: PVC, Galvanized, Steel, Other, Height: Above /Below, Surface, Weight, Drive Shoe?

11. SCREEN: Type: PVC, Diam.: 2", Slot/Gauge: 0.010, Length: 5', Set Between: 55 ft. and 60 ft., Sieve Analysis

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface. ft. after hrs. Pumping G.P.M. Pumping Test: Yes No Yield:

14. WATER QUALITY Chemical Analysis, Bacterial Analysis, Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No Installed from 53 ft. to 60 ft. Effective size #3 Gravel Uniformity Coefficient

16. WELL GROUTED? Yes No Neat Cement, Bentonite, Bentonite/Cement, Other Depth: From 0.5 ft. to 53 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type Well Disinfected Yes No Type: Amount:

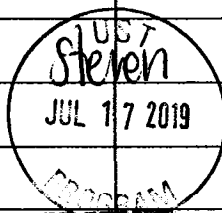
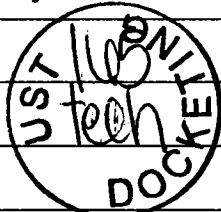
18. PUMP: Date installed: Not installed Mfr. Name: Model No.: H.P., Volts, Length of drop pipe, Capacity, TYPE: Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Bryan L Vest CERT. NO.: 2188 Address: (Print) Level: A B C D (circle one) 111 Vest Lane, West End, NC 27376 Telephone No.: (910) 339-0330 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Bryan L Vest Date: 6/10/2019 Well Driller

If D Level Driller, provide supervising driller's name:



RECEIVED JUL 01 2019

Water Monitoring, Assessment & Protection Division



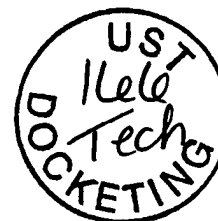


**Geological Resources, Inc.**



July 31, 2019

Mr. Steven Martin  
SCDHEC  
UST Management Division  
Bureau of Land & Waste Management  
2600 Bull Street  
Columbia, SC 29201



Re: Soil & Ground Water Monitoring Report  
May & June 2019  
378 Truck Stop  
731 U.S. Highway 378  
Edgefield, Edgefield County  
South Carolina  
UST Permit Number: 07960  
GRI Project No: 4422

Dear Mr. Martin,

Please find enclosed the referenced report for the above mentioned site.

If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,

**Geological Resources, Inc.**

Leslie Maxtone-Graham  
Administrative Assistant

Enclosure

Cc: Mr. Frank Wilkerson & Mr. Kim Gwyn; Wilkerson Fuel Company, file

**3502 Hayes Road • Monroe, North Carolina 28110**  
**113 West Firetower Road, Suite G • Winterville, North Carolina 28590**  
**Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012**



**SOIL AND GROUND WATER ASSESSMENT REPORT  
MAY & JUNE 2019  
378 TRUCK STOP  
731 U.S. HIGHWAY 378  
EDGEFIELD, EDGEFIELD COUNTY  
SOUTH CAROLINA  
UST PERMIT NO. 07960  
GRI PROJECT NO. 4422**



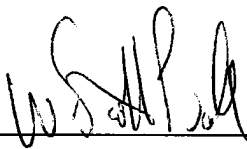
Prepared for:

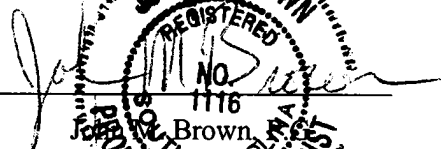
Mr. Frank Wilkerson  
Wilkerson Oil Company  
Post Office Box 2835  
Rock Hill, South Carolina 29732

Prepared by:

Geological Resources, Inc.  
3502 Hayes Road  
Monroe, North Carolina 28110  
Class 1 UST Site Rehabilitation Contractor # 74

July 30, 2019

  
\_\_\_\_\_  
W. Scott Ball  
Senior Project Manager

  
\_\_\_\_\_  
JOHN M. BROWN  
REGISTERED  
NO. 1116  
Brown  
SOUTH CAROLINA  
PROFESSIONAL GEOLOGIST  
Lic. Exp. 12/31/2022

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## 1.0 INTRODUCTION

This report presents the results of soil assessment, monitoring well installation and comprehensive ground water sampling activities conducted in May and June 2019 at the former 378 Truck Stop site, located at 731 U.S. Highway 378, Edgefield, Edgefield County, South Carolina (**Figure 1**). The activities were conducted in accordance with the Monitoring Well Installation SSWP Approval and Notice to Proceed dated November 14, 2018 from the South Carolina Department of Health and Environmental Control (SCDHEC). The purpose of the activities was to further assess ground water quality for the site. The site is currently vacant and contains an abandoned building previously used as a truck stop and petroleum retail facility. Adjacent properties are currently used for residential purposes.

A release from the UST system was reported to the SCDHEC in October 1974 and confirmed in July 1996. Reportedly, one 550-gallon diesel UST, one 1,000-gallon gasoline UST and one 2,000-gallon gasoline UST as well as associated product piping and dispensers were removed from the site in January 1997. No USTs are currently in use at the site. Both Tier I and Tier II site assessments have been conducted at the site. To date, a total of 31 Type III monitoring wells (MW-1 through MW-31) and nine telescoping monitoring wells (TW-1 through TW-9) have been installed at the site and surrounding properties. A total of 16 water supply wells (WSW-1 through WSW-15 and WSW-X) have been identified within a 500-foot radius of the source area. Both AFVR and ground water sampling events have reportedly been conducted at the site since completion of the Tier II activities in 2010.

The last comprehensive ground water sampling event conducted at the site occurred in August 2017. Contaminants of concern (COCs) above their respective risk-based screening levels (RBSLs) have been reported in several monitoring wells at the site. This report summarizes the June 2019 soil assessment and ground water monitoring results.

## 2.0 FACILITY INFORMATION

- **Facility Name:** 378 Truck Stop
- **Location:** 731 U.S. Highway 378  
Edgefield, Edgefield County, SC 29824
- **UST Permit No.** 07960
- **Land Use:** Commercial
- **Property Owner:** Old Truck Stop, LLC  
102 Faulkner Mountain Road  
Edgefield, SC 29824

(803) 637-5422

- **UST Owner/Operator:** Wilkerson Oil Company  
Post Office Box 2835  
Rock Hill, South Carolina 29732  
(803) 324-4080
- **Site Rehabilitation Contractor:** Geological Resources, Inc. (GRI)  
3502 Hayes Road  
Monroe, North Carolina 28110  
(704) 845-4010  
Class 1, Certification Number 74
- **Drilling Contractor:** REDI  
Bryan Vest  
1 Piney Point  
Whispering Pines, North Carolina 28327  
(910) 690-6688  
Certification Number 2188-B
- **Laboratory:** SGS North America, Inc.  
4405 Vineland Road, Suite C-15  
Orlando, FL 32811  
(407) 425-6700  
State Certification Number: 96038001

**Release Information:**

- **Date Discovered:** October 1974
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two gasoline USTs and one diesel UST
  
- **Latitude:** 33.937110°North      **Longitude:** 81.951158° West

**3.0 WELL INSTALLATION**

On May 21 and May 22, 2019, two telescoping monitoring wells (TW-10 and TW-11) were installed. TW-10 was installed to a total depth of 65 feet with a screened interval of 5 feet. TW-11 was installed to a total depth of 60 feet with a screened interval of 5 feet. Copies of the subsurface logs, Well Construction Records and Well Development Forms have been included in **Appendix A**. GRI attempted to survey the top-of-casing elevations for TW-10 and TW-11 using existing top-of-casing elevation data previously established for the site. However, when shooting to previously surveyed reference points, the elevation data did not correlate with those known elevations. It is recommended that a comprehensive professional survey of the site and all top-of-casing elevations be conducted.

#### 4.0 GROUND WATER QUALITY

Twenty four Type III monitoring wells (MW-1 through MW-13, MW-17, MW-19 through MW-23, MW-25, MW-27 through MW-30) and nine telescoping monitoring wells (TW-1 through TW-5, TW-7, TW-8, TW-10 and TW-11) were gauged on June 12, 2019. Monitoring wells MW-14, MW-15, MW-16, MW-18, MW-24, MW-26, MW-31, TW-6 and TW-9 could not be located and were not sampled. All monitoring wells were purged and sampled on June 12 and June 13, 2019. The depths to ground water in the Type III monitoring wells during the June 12, 2019 gauging event ranged from 13.82 to 28.93 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 75.77 to 86.90 feet. Based on this data, ground water flow across the area was generally toward the southwest with a horizontal gradient of approximately 0.03 feet per foot. The depths to ground water in the telescoping monitoring wells during the June 12, 2019 gauging event ranged from 12.72 to 61.58 feet below the top of casings. Ground water elevations in the telescoping monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 78.80 to 85.30 feet. Based on this data, ground water flow across the area in the telescoping wells was generally toward the west with a horizontal hydraulic gradient of approximately 0.01 feet per foot. The vertical hydraulic gradient calculated for paired wells MW-1/TW-1, MW-3/TW-2, MW-9/TW-3, MW-10/TW-4, MW-12/TW-5, MW-17/TW-7 and MW-19/TW-8 were approximately 0.14 feet per foot downward, 0.045 feet per foot upward, 0.017 feet per foot upward, 0.035 feet per foot upward, 0.013 feet per foot downward, 0.017 feet per foot upward and 0.079 feet per foot upward, respectively. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. Summaries of ground water elevation data for the June 2019 sampling event are presented in **Table 1**. Potentiometric Surface Maps for the Type III monitoring wells and the telescoping monitoring wells based on the June 2019 gauging data have been included as **Figures 3 and 4**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the June 2019 sampling event for BTEX, MTBE, naphthalene, 1,2-dichloroethane (1,2-DCA) and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. Concentrations of BTEX constituents, naphthalene, 1,2-DCA and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, TW-1 and TW-2. Concentrations of the oxygenate TAA that exceeded the action level were reported in the samples collected from MW-1, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, TW-1 and TW-2. A Ground Water Quality Map based on data from the June 2019 sampling event has been included as **Figure 5**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A

complete laboratory analytical report has been included as **Appendix B**. Field Data Information Sheets are attached as **Appendix C**. Historical ground water elevation data and historical ground water quality data have been included as **Appendix D**. Approximately 139 gallons of purge water was generated during the well development activities and the ground water sampling event. The purge water was transported to a licensed facility for disposal. A copy of the Disposal Manifest has been included as **Appendix E**.

## **5.0 SOIL ASSESSMENT**

On May 22, GRI personnel installed ten soil borings in an area on the east side of the former 378 Truck Stop structure. The area was reported to be previously used as a waste pit where used oil was dumped. Borings were installed to total depths ranging from five to ten feet below grade. Samples were collected at five-foot and/or ten foot intervals and screened with a PID. A soil sample was collected from the interval showing the highest PID reading and/or at the terminus of the boring. The soil samples were submitted for analyses of BTEX and naphthalene using Method 8260B, 5 PAHs using Method 8270D, and 8 RCRA Metals using Methods 6010D and 7471B. No detectable concentrations of Method 8260B or 8270D constituents were reported in any of the soil samples collected. Concentrations of arsenic that exceeded the U.S. EPA's Resident and Industrial Soil Screening Levels (SSLs) were reported in each soil sample collected. Concentrations of Barium, Chromium, Lead and/or Mercury were reported in the soil samples collected. However, none of the reported concentrations exceeded the Resident or Industrial SSLs for those metals. A Soil Quality Map based on the data from the May 22 soil assessment activities has been included as **Figure 6**. A summary of the soil sample analytical results is presented in **Table 4**. Subsurface boring logs are included in **Appendix A**. A complete laboratory analytical report is included in **Appendix B**.

## **6.0 QA/QC**

Soil sampling, monitoring well installation, development, gauging, purging and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All wells were purged and sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-3, MW-13, and MW-22 (MW-3 DUP A, MW-13 DUP B, and MW-22 DUP C) and one monitoring well field blank were collected during the sampling activities. Laboratory provided trip blanks for the monitoring well samples were included in the sample coolers. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. No detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor

Checklist is included as **Appendix F**.

## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

- Two telescoping monitoring wells, TW-10 and TW-11, were installed between May 21 and May 22, 2019. The total depths of the telescoping wells were 65 and 60 feet, respectively.
- Ten soil borings were installed in the former waste oil disposal pit on May 22, 2019. One soil sample was collected from each soil boring. Concentrations of arsenic that exceeded the Resident and Industrial SSLs were reported in each soil sample collected. Concentrations of Barium, Chromium, Lead and/or Mercury were reported in the soil samples collected. However, none of the reported concentrations exceeded the Resident or Industrial SSLs for those metals.
- Twenty four Type III monitoring wells and nine telescoping monitoring wells were gauged, purged and sampled between June 12 and June 13, 2019.
- Ground water flow in the Type III monitoring wells and telescoping monitoring wells across the site was generally towards the southwest and west, respectively. The horizontal hydraulic gradient across the site was approximately 0.03 feet per foot for the Type III monitoring wells and 0.01 feet per foot for the telescoping wells. The vertical hydraulic gradient calculated for paired Type III and telescoping monitoring wells varied from 0.79 feet per foot upward for MW-19/TW-8 to 0.14 feet per foot downward for MW-1/TW-1.
- Concentrations of BTEX constituents, naphthalene, 1,2-DCA and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, TW-1 and TW-2. Concentrations of the oxygenate TAA that exceeded the action levels were reported in the samples collected from MW-1, MW-3, MW-7, MW-12, MW-13, MW-22, MW-29, MW-30, TW-1 and TW-2.
- GRI makes the following recommendations:
  - A comprehensive site survey should be conducted to tie together all monitoring wells.
  - Due to the presence of water supply wells in the area, ground water sampling events should continue at the site.
  - AFVR events should be conducted on monitoring wells MW-1, MW-3, MW-7, MW-12, MW-13 and MW-22 to reduce the dissolved-phase contaminant concentrations in those wells.

## **8.0 LIMITATIONS**

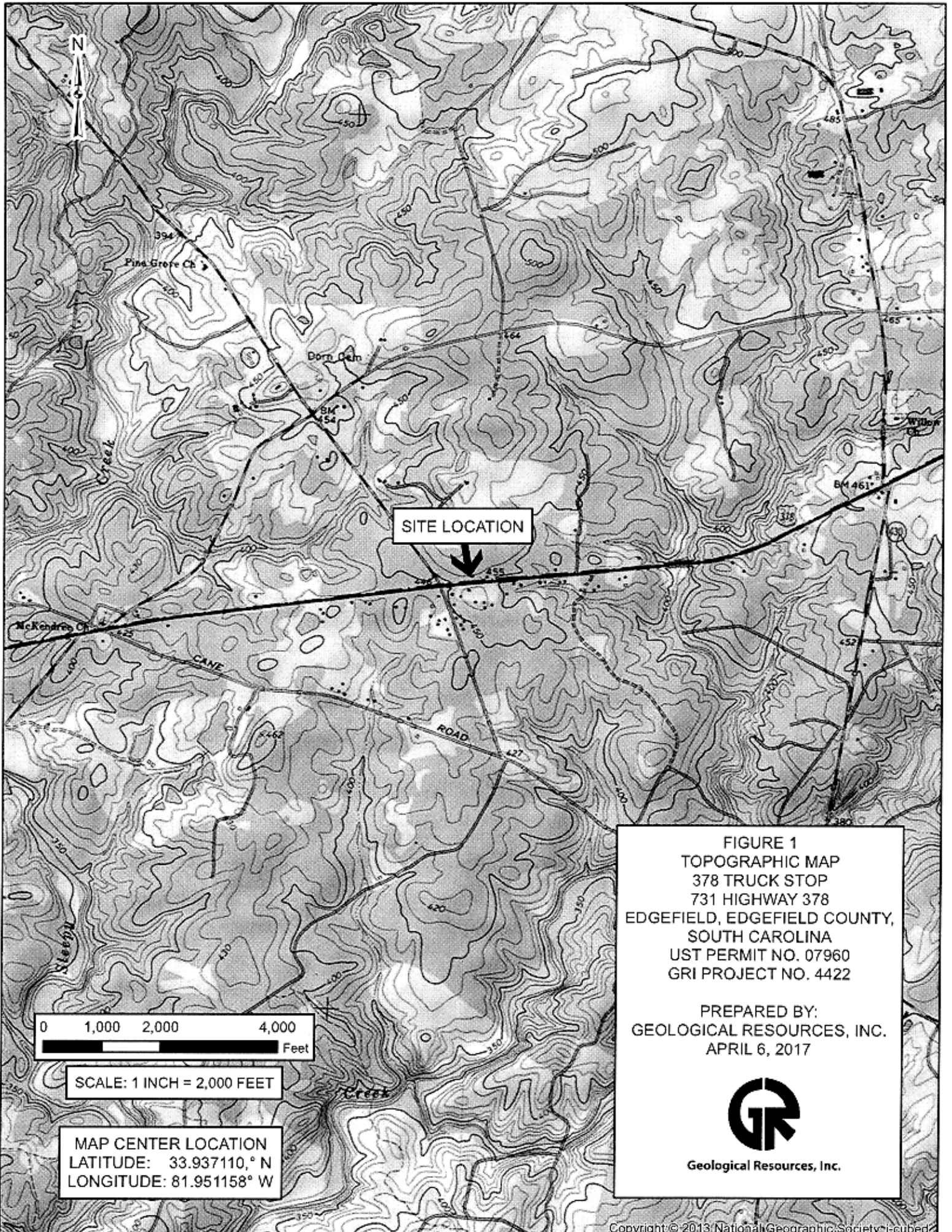
This report has been prepared for the exclusive use of Wilkerson Oil Company and the SCDHEC for specific application to the referenced site in Edgefield County, South Carolina. The assessment was



conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data. Please note that certain information contained in this report was not obtained under the direct supervision of GRI personnel. Therefore, GRI cannot verify the accuracy of this information. However, for the purpose of this report, GRI assumes the information is correct.

## **FIGURES**



SITE LOCATION

FIGURE 1  
TOPOGRAPHIC MAP  
378 TRUCK STOP  
731 HIGHWAY 378  
EDGEFIELD, EDGEFIELD COUNTY,  
SOUTH CAROLINA  
UST PERMIT NO. 07960  
GRI PROJECT NO. 4422

PREPARED BY:  
GEOLOGICAL RESOURCES, INC.  
APRIL 6, 2017



Geological Resources, Inc.

0 1,000 2,000 4,000  
Feet

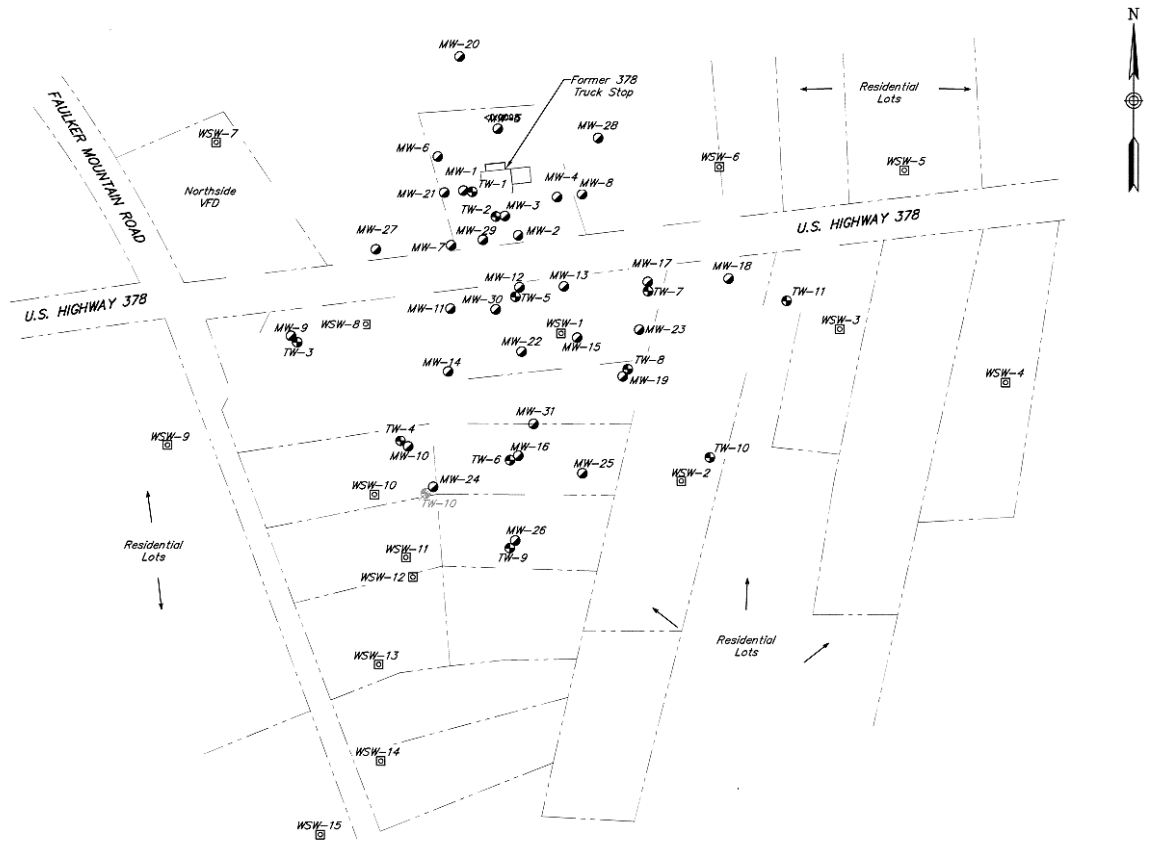
SCALE: 1 INCH = 2,000 FEET

MAP CENTER LOCATION  
LATITUDE: 33.937110,° N  
LONGITUDE: 81.951158° W

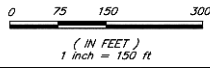
**LEGEND**

- TYPE III MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ⊙ ABANDONED MONITORING WELL
- ⊠ WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT

Note:  
This Site Map is based on the former  
consultant's map dated October 17, 2013.



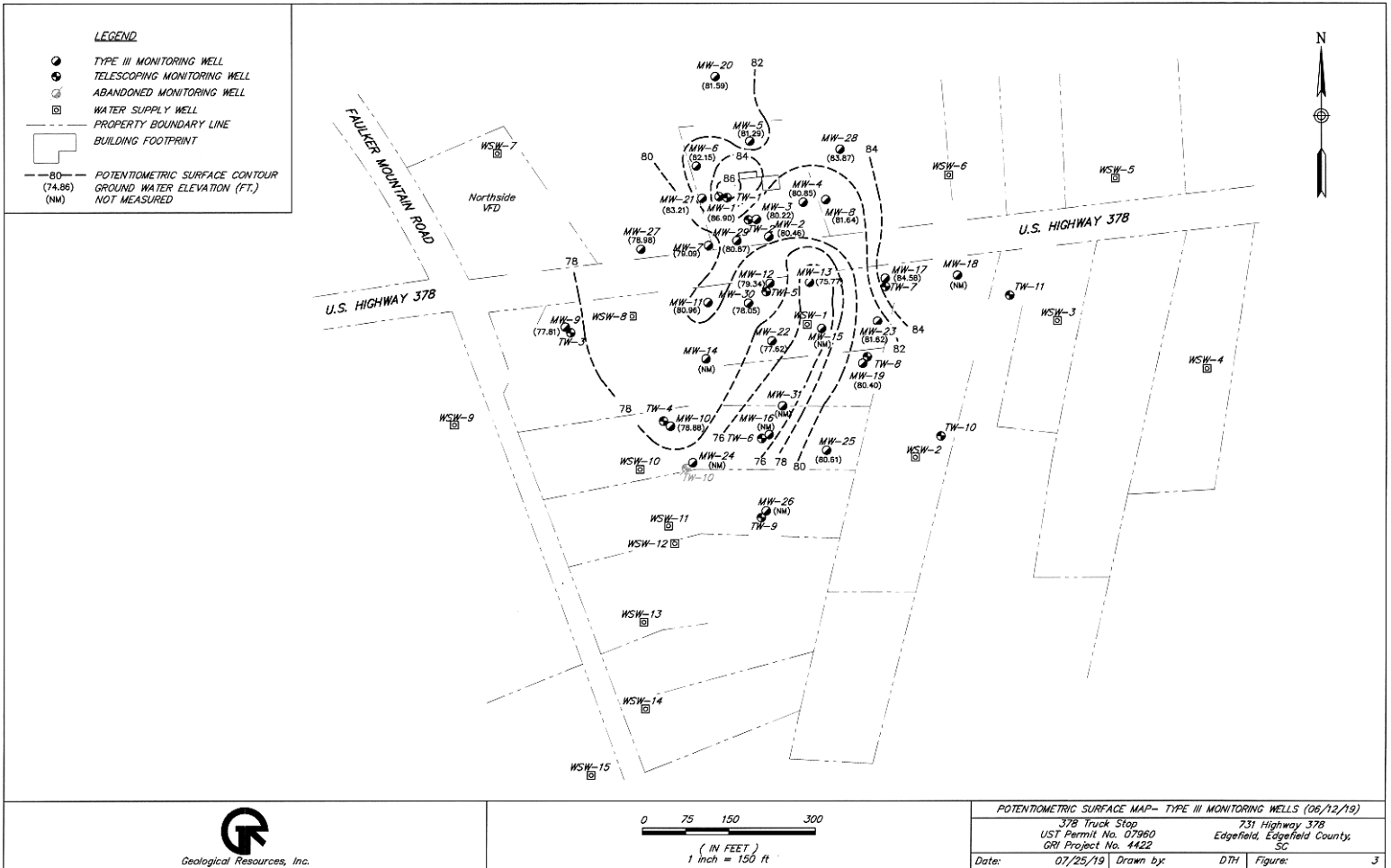
Geological Resources, Inc.



**SITE MAP**

378 Truck Stop      731 Highway 37B  
 UST Permit No. 07980      Edgefield, Edgefield County,  
 GRI Project No. 4422      SC

Date: 07/22/19    Drawn by: DTH    Figure: 2

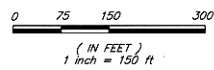


**LEGEND**

- TYPE III MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ⊖ ABANDONED MONITORING WELL
- ⊕ WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT
- - - POTENTIOMETRIC SURFACE CONTOUR
- (74.86) GROUND WATER ELEVATION (FT.)
- (NM) NOT MEASURED

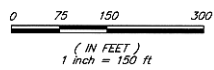
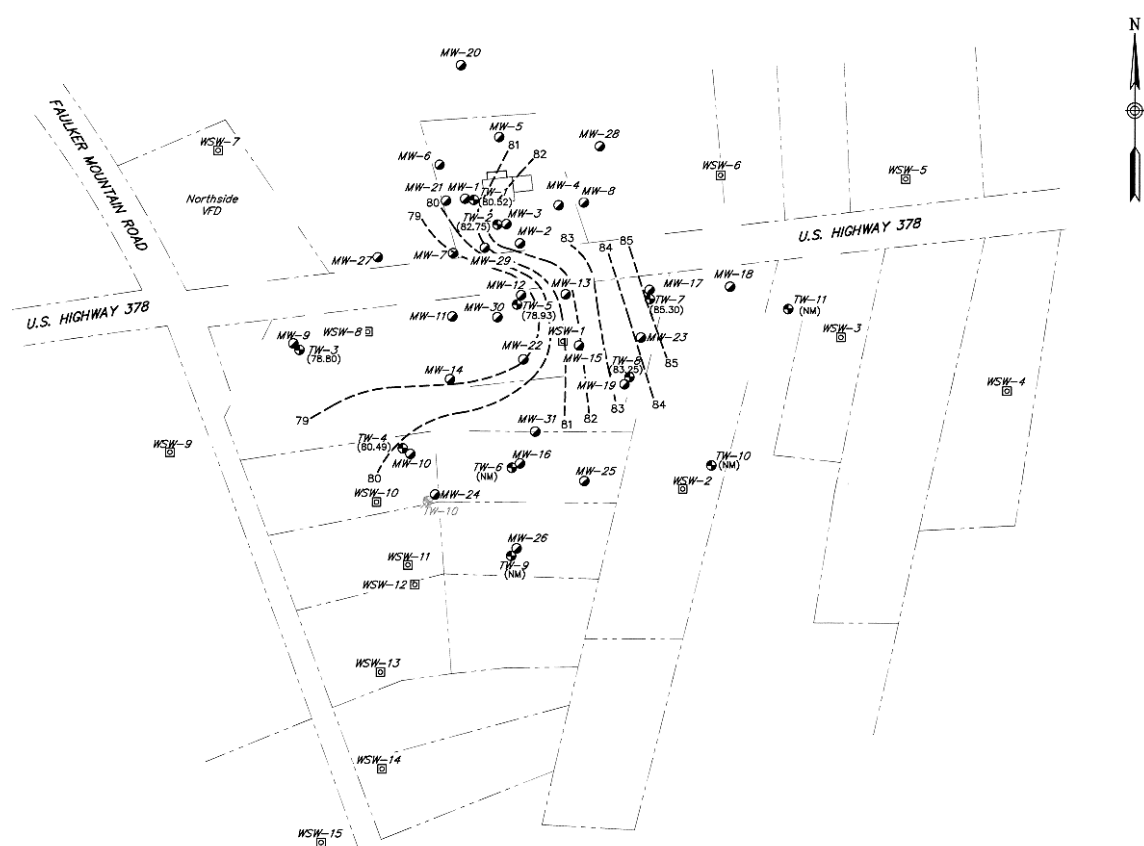
POTENTIOMETRIC SURFACE MAP - TYPE III MONITORING WELLS (06/12/19)

378 Truck Stop 731 Highway 378  
 UST Permit No. 07980 Edgefield, Edgefield County, SC  
 GRI Project No. 4422  
 Date: 07/25/19 Drawn by: DTH Figure: 3



**LEGEND**

- TYPE III MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ⊘ ABANDONED MONITORING WELL
- WATER SUPPLY WELL
- PROPERTY BOUNDARY LINE
- BUILDING FOOTPRINT
- B5--- POTENTIOMETRIC SURFACE CONTOUR  
(74.86)
- (NM) GROUND WATER ELEVATION (FT.)  
NOT MEASURED



|  |                                 |         |   |
|--|---------------------------------|---------|---|
| POTENTIOMETRIC SURFACE MAP— TELESCOPING WELLS (06/12/19) |                                 |         |   |
| 378 Truck Stop   | 731 Highway 378                 |         |   |
| UST Permit No. 07960                                     | Edgefield, Edgefield County, SC |         |   |
| GRI Project No. 4422                                     |                                 |         |   |
| Date: 07/25/19   | Drawn by: DTH                   | Figure: | 4 |

**LEGEND**

- TYPE III MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ABANDONED MONITORING WELL
- ⊠ WATER SUPPLY WELL
- - - PROPERTY BOUNDARY LINE
- ▭ BUILDING FOOTPRINT

|        |               |
|--------|---------------|
| <0.140 | BENZENE       |
| <0.180 | TOLUENE       |
| <0.190 | ETHYL BENZENE |
| <0.220 | XYLENES       |
| <0.250 | NAPHTHALENE   |
| <0.500 | 1,2-DCA       |
| <0.180 | ED6           |

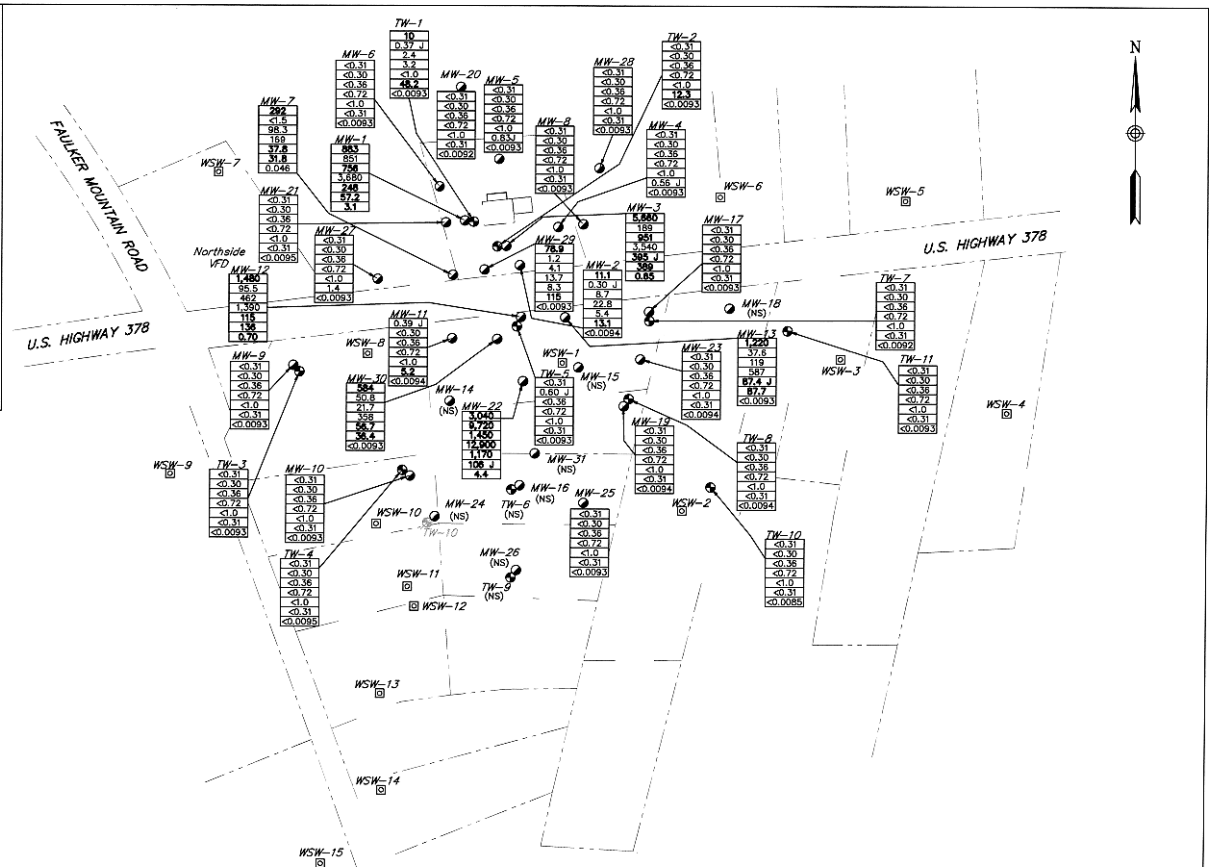
CONCENTRATIONS IN  $\mu\text{g/L}$

<0.140 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

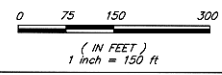
CONCENTRATIONS IN BOLD FACE TYPE EXCEEDED THE RBLSL

(NS) NOT SAMPLED

"J" ESTIMATED VALUE





Geological Resources, Inc.



GROUND WATER QUALITY MAP (06/12-13/19)  
 378 Truck Stop 731 Highway 378  
 UST Permit No. 07980 Edgefield, Edgefield County,  
 GRI Project No. 4422 SC  
 Date: 07/22/19 Drawn by: DTH Figure: 5

**LEGEND**

 SOIL SAMPLE LOCATION  
 BUILDING FOOTPRINT

|           |          |
|-----------|----------|
| <b>As</b> | ARSENIC  |
| 61.5      | BARIUM   |
| 32.7      | CHROMIUM |
| 7.6       | LEAD     |
| <0.047    | MERCURY  |

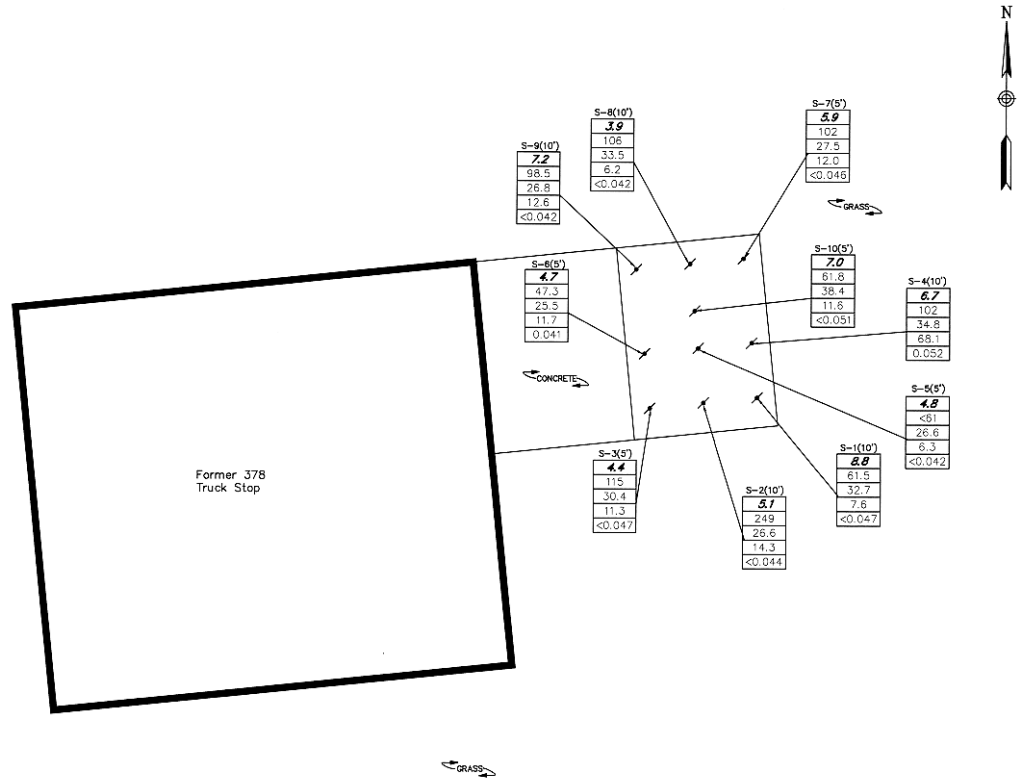
CONCENTRATIONS IN mg/kg

< LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

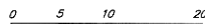
"J" ESTIMATED VALUE

CONCENTRATIONS IN BOLD FACE TYPE EXCEEDED RESIDENT SSLs.

CONCENTRATIONS IN ITALIC TYPE EXCEEDED INDUSTRIAL SSLs.



Geological Resources, Inc.



( IN FEET )  
1 inch = 10 ft

SOIL QUALITY MAP (05/22/19)

378 Truck Stop 731 Highway 378  
 UST Permit No. 07980 Edgefield, Edgefield County, SC  
 GRI Project No. 4422

Date: 07/24/19 Drawn by: DTH Figure: 6



## **TABLES**

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No. | Date     | Constructed Well Depth (ft) | Screened Interval (ft) | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Free Product Thickness (ft) | Ground Water Elevation (ft) | Comments |
|----------|----------|-----------------------------|------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|----------|
| MW-1     | 08/29/17 | 45                          | unknown                | 101.98                       | 25.01                      | ---                         | 76.97                       |          |
|          | 06/12/19 |                             |                        |                              | 15.08                      | ---                         | 86.90                       |          |
| MW-2     | 08/29/17 | 43                          | unknown                | 100.99                       | 26.28                      | ---                         | 74.71                       |          |
|          | 06/12/19 |                             |                        |                              | 20.53                      | ---                         | 80.46                       |          |
| MW-3     | 08/29/17 | 40                          | 10-40                  | 101.54                       | 26.73                      | ---                         | 74.81                       |          |
|          | 06/12/19 |                             |                        |                              | 21.32                      | ---                         | 80.22                       |          |
| MW-4     | 08/29/17 | 40                          | 10-40                  | 100.48                       | 25.13                      | ---                         | 75.35                       |          |
|          | 06/12/19 |                             |                        |                              | 19.63                      | ---                         | 80.85                       |          |
| MW-5     | 08/29/17 | 40                          | 20-40                  | 104.18                       | 29.03                      | ---                         | 75.15                       |          |
|          | 06/12/19 |                             |                        |                              | 22.89                      | ---                         | 81.29                       |          |
| MW-6     | 08/29/17 | 35                          | 20-35                  | 102.25                       | 24.46                      | ---                         | 77.79                       |          |
|          | 06/12/19 |                             |                        |                              | 20.10                      | ---                         | 82.15                       |          |
| MW-7     | 08/29/17 | 35                          | 20-35                  | 99.72                        | 21.94                      | ---                         | 77.78                       |          |
|          | 06/12/19 |                             |                        |                              | 20.63                      | ---                         | 79.09                       |          |
| MW-8     | 08/29/17 | 35                          | 20-35                  | 99.92                        | 24.37                      | ---                         | 75.55                       |          |
|          | 06/12/19 |                             |                        |                              | 18.28                      | ---                         | 81.64                       |          |
| MW-9     | 08/29/17 | 35                          | 20-35                  | 94.83                        | 23.85                      | ---                         | 70.98                       |          |
|          | 06/12/19 |                             |                        |                              | 17.02                      | ---                         | 77.81                       |          |
| MW-10    | 08/29/17 | 40                          | 25-40                  | 99.12                        | 27.33                      | ---                         | 71.79                       |          |
|          | 06/12/19 |                             |                        |                              | 20.24                      | ---                         | 78.88                       |          |
| MW-11    | 08/29/17 | 35                          | 20-35                  | 102.61                       | 27.68                      | ---                         | 74.93                       |          |
|          | 06/12/19 |                             |                        |                              | 21.65                      | ---                         | 80.96                       |          |
| MW-12    | 08/29/17 | 35                          | 20-35                  | 103.46                       | 28.80                      | ---                         | 74.66                       |          |
|          | 06/12/19 |                             |                        |                              | 24.12                      | ---                         | 79.34                       |          |

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No. | Date     | Constructed Well Depth (ft) | Screened Interval (ft) | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Free Product Thickness (ft) | Ground Water Elevation (ft) | Comments |
|----------|----------|-----------------------------|------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|----------|
| MW-13    | 08/29/17 | 40                          | 25-40                  | 101.48                       | 26.21                      | ---                         | 75.27                       |          |
|          | 06/12/19 |                             |                        |                              | 25.71                      | ---                         | 75.77                       |          |
| MW-14    | 08/29/17 | 40                          | 25-40                  | 103.48                       | 30.18                      | ---                         | 73.30                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| MW-15    | 08/29/17 | 40                          | 25-40                  | 103.16                       | 29.08                      | ---                         | 74.08                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| MW-16    | 08/29/17 | 40                          | 25-40                  | 101.32                       | 28.68                      | ---                         | 72.64                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| MW-17    | 08/29/17 | 35                          | 20-35                  | 98.40                        | 22.39                      | ---                         | 76.01                       |          |
|          | 06/12/19 |                             |                        |                              | 13.82                      | ---                         | 84.58                       |          |
| MW-18    | 08/29/17 | 35                          | 20-35                  | 95.05                        | 19.54                      | ---                         | 75.51                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| MW-19    | 08/29/17 | 39                          | 24-39                  | 101.07                       | 26.71                      | ---                         | 74.36                       |          |
|          | 06/12/19 |                             |                        |                              | 20.67                      | ---                         | 80.40                       |          |
| MW-20    | 08/29/17 | 45                          | 30-45                  | 110.52                       | 35.91                      | ---                         | 74.61                       |          |
|          | 06/12/19 |                             |                        |                              | 28.93                      | ---                         | 81.59                       |          |
| MW-21    | 08/29/17 | 40                          | 25-40                  | 101.70                       | 25.27                      | ---                         | 76.43                       |          |
|          | 06/12/19 |                             |                        |                              | 18.49                      | ---                         | 83.21                       |          |
| MW-22    | 08/29/17 | 40                          | 25-40                  | 105.13                       | 31.52                      | ---                         | 73.61                       |          |
|          | 06/12/19 |                             |                        |                              | 27.51                      | ---                         | 77.62                       |          |
| MW-23    | 08/29/17 | 37                          | 22-37                  | 100.01                       | 25.07                      | ---                         | 74.94                       |          |
|          | 06/12/19 |                             |                        |                              | 18.39                      | ---                         | 81.62                       |          |
| MW-24    | 08/29/17 | 40                          | 25-40                  | 99.08                        | 28.49                      | ---                         | 70.59                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No. | Date     | Constructed Well Depth (ft) | Screened Interval (ft) | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Free Product Thickness (ft) | Ground Water Elevation (ft) | Comments |
|----------|----------|-----------------------------|------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|----------|
| MW-25    | 08/29/17 | 40                          | 25-40                  | 101.54                       | 28.26                      | ---                         | 73.28                       |          |
|          | 06/12/19 |                             |                        |                              | 20.93                      | ---                         | 80.61                       |          |
| MW-26    | 08/29/17 | 39                          | 24-39                  | 97.25                        | 25.01                      | ---                         | 72.24                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| MW-27    | 08/29/17 | 35                          | 20-35                  | 97.20                        | 24.94                      | ---                         | 72.26                       |          |
|          | 06/12/19 |                             |                        |                              | 18.22                      | ---                         | 78.98                       |          |
| MW-28    | 08/29/17 | 40                          | 25-40                  | 101.29                       | 24.81                      | ---                         | 76.48                       |          |
|          | 06/12/19 |                             |                        |                              | 17.42                      | ---                         | 83.87                       |          |
| MW-29    | 08/29/17 | 40                          | 25-40                  | 101.08                       | 26.49                      | ---                         | 74.59                       |          |
|          | 06/12/19 |                             |                        |                              | 20.21                      | ---                         | 80.87                       |          |
| MW-30    | 08/29/17 | 45                          | 30-45                  | 104.62                       | 30.11                      | ---                         | 74.51                       |          |
|          | 06/12/19 |                             |                        |                              | 26.57                      | ---                         | 78.05                       |          |
| MW-31    | 08/29/17 | 44                          | 29-44                  | 103.20                       | 30.40                      | ---                         | 72.80                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| TW-1     | 08/29/17 | 63                          | 58-63                  | 101.83                       | 27.34                      | ---                         | 74.49                       |          |
|          | 06/12/19 |                             |                        |                              | 21.31                      | ---                         | 80.52                       |          |
| TW-2     | 08/29/17 | 80                          | 75-80                  | 101.97                       | 26.59                      | ---                         | 75.38                       |          |
|          | 06/12/19 |                             |                        |                              | 19.22                      | ---                         | 82.75                       |          |
| TW-3     | 08/29/17 | 80                          | 75-80                  | 95.33                        | 23.63                      | ---                         | 71.70                       |          |
|          | 06/12/19 |                             |                        |                              | 16.53                      | ---                         | 78.80                       |          |
| TW-4     | 08/29/17 | 69                          | 64-69                  | 99.23                        | 25.31                      | ---                         | 73.92                       |          |
|          | 06/12/19 |                             |                        |                              | 18.74                      | ---                         | 80.49                       |          |
| TW-5     | 08/29/17 | 59                          | 54-59                  | 103.62                       | 28.76                      | ---                         | 74.86                       |          |
|          | 06/12/19 |                             |                        |                              | 24.69                      | ---                         | 78.93                       |          |

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No. | Date     | Constructed Well Depth (ft) | Screened Interval (ft) | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Free Product Thickness (ft) | Ground Water Elevation (ft) | Comments |
|----------|----------|-----------------------------|------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|----------|
| TW-6     | 08/29/17 | 59                          | 54-59                  | 101.29                       | 28.93                      | ---                         | 72.36                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| TW-7     | 08/29/17 | 59                          | 54-59                  | 98.13                        | 18.42                      | ---                         | 79.71                       |          |
|          | 06/12/19 |                             |                        |                              | 12.83                      | ---                         | 85.30                       |          |
| TW-8     | 08/29/17 | 59                          | 54-59                  | 101.03                       | 26.59                      | ---                         | 74.44                       |          |
|          | 06/12/19 |                             |                        |                              | 17.78                      | ---                         | 83.25                       |          |
| TW-9     | 08/29/17 | 80                          | 75-80                  | 96.92                        | 25.14                      | ---                         | 71.78                       |          |
|          | 06/12/19 |                             |                        |                              | NM                         | ---                         | NM                          |          |
| TW-10    | 06/12/19 | 65                          | 60-65                  | NM                           | 61.58                      | ---                         | NM                          |          |
| TW-11    | 06/12/19 | 60                          | 55-60                  | NM                           | 12.72                      | ---                         | NM                          |          |

Note:

- NM: Not measured
- Ground water elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.           | Date     | Benzene      | Toluene      | Ethylbenzene | Xylenes       | MTBE      | Naphthalene  | 1,2-DCA     | EDB         |
|--------------------|----------|--------------|--------------|--------------|---------------|-----------|--------------|-------------|-------------|
| <b>RBSL (µg/l)</b> |          | <b>5</b>     | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>    | <b>5</b>    | <b>0.05</b> |
| MW-1               | 08/31/17 | <b>1,070</b> | 343          | <b>1,740</b> | 5,890         | <4.6      | <b>796</b>   | <b>74.8</b> | <b>1.9</b>  |
|                    | 06/13/19 | <b>883</b>   | 851          | <b>756</b>   | 3,680         | <4.6      | <b>248</b>   | <b>57.2</b> | <b>3.1</b>  |
| MW-2               | 08/31/17 | 1.7          | <0.30        | 0.81 J       | <0.72         | <0.23     | <1.0         | <b>10.9</b> | <0.0096     |
|                    | 06/13/19 | <b>11.1</b>  | 0.30 J       | 8.7          | 22.8          | <0.23     | 5.4          | <b>13.1</b> | <0.0094     |
| MW-3               | 08/30/17 | <b>5,910</b> | 206          | <b>726</b>   | 2,750         | <23       | <b>398 J</b> | <b>503</b>  | <b>0.18</b> |
|                    | 06/13/19 | <b>5,660</b> | 189          | <b>951</b>   | 3,540         | <23       | <b>395 J</b> | <b>389</b>  | <b>0.65</b> |
| MW-3<br>DUP A      | 08/30/17 | <b>7,510</b> | 292          | <b>1,090</b> | 3,550         | <23       | <b>415 J</b> | <b>523</b>  | <b>0.21</b> |
|                    | 06/13/19 | <b>5,970</b> | 154          | <b>848</b>   | 3,320         | <23       | <b>358 J</b> | <b>397</b>  | <b>0.51</b> |
| MW-4               | 08/31/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | 0.53 J      | <0.0097     |
|                    | 06/13/19 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | 0.56 J      | <0.0093     |
| MW-5               | 08/31/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | 1.2         | <0.0098     |
|                    | 06/13/19 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | 0.83 J      | <0.0093     |
| MW-6               | 08/31/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0099     |
|                    | 06/13/19 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0093     |
| MW-7               | 08/31/17 | <b>555</b>   | 6.9 J        | 97.6         | 476           | <2.3      | <b>79.1</b>  | <b>48.3</b> | <b>0.33</b> |
|                    | 06/13/19 | <b>292</b>   | <1.5         | 98.3         | 169           | <1.1      | <b>37.8</b>  | <b>31.8</b> | 0.046       |
| MW-8               | 08/30/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0098     |
|                    | 06/13/19 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0093     |
| MW-9               | 08/30/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0097     |
|                    | 06/13/19 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0093     |
| MW-10              | 08/30/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0095     |
|                    | 06/13/19 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | <0.31       | <0.0093     |
| MW-11              | 08/30/17 | <0.31        | <0.30        | <0.36        | <0.72         | <0.23     | <1.0         | 1.6         | <0.0097     |
|                    | 06/13/19 | 0.39 J       | <0.30        | <0.36        | <0.72         | 0.33 J    | <1.0         | <b>5.2</b>  | <0.0094     |
| MW-12              | 08/30/17 | <b>1,350</b> | 14.6 J       | 283          | 64.7          | <4.6      | 23.0 J       | <b>188</b>  | <b>0.11</b> |
|                    | 06/13/19 | <b>1,480</b> | 95.5         | 462          | 1,390         | <4.6      | <b>115</b>   | <b>136</b>  | <b>0.70</b> |

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.           | Date     | Benzene      | Toluene       | Ethylbenzene | Xylenes       | MTBE      | Naphthalene   | 1,2-DCA      | EDB         |
|--------------------|----------|--------------|---------------|--------------|---------------|-----------|---------------|--------------|-------------|
| <b>RBSL (µg/l)</b> |          | <b>5</b>     | <b>1,000</b>  | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>     | <b>5</b>     | <b>0.05</b> |
| MW-13              | 08/30/17 | <b>852</b>   | 13.9          | 68.2         | 147           | <2.3      | <b>36.6 J</b> | <b>105</b>   | <0.0099     |
|                    | 06/13/19 | <b>1,220</b> | 37.6          | 119          | 587           | <4.6      | <b>87.4 J</b> | <b>87.7</b>  | <0.0093     |
| MW-13<br>DUP B     | 08/30/17 | <b>872</b>   | 15.7 J        | 72.5         | 154           | <4.6      | <b>33.2 J</b> | <b>112</b>   | <0.0095     |
|                    | 06/13/19 | <b>1,390</b> | 40.3          | 119          | 606           | <4.6      | <b>83.9 J</b> | <b>92.5</b>  | <0.0094     |
| MW-14              | 08/30/17 | 0.78 J       | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0097     |
|                    | 06/13/19 | NS           | NS            | NS           | NS            | NS        | NS            | NS           | NS          |
| MW-15              | 08/30/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0097     |
|                    | 06/13/19 | NS           | NS            | NS           | NS            | NS        | NS            | NS           | NS          |
| MW-16              | 08/30/17 | 4.8          | 0.48 J        | <0.36        | 2.8 J         | <0.23     | 6.3           | <0.31        | <0.0094     |
|                    | 06/13/19 | NS           | NS            | NS           | NS            | NS        | NS            | NS           | NS          |
| MW-17              | 08/29/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0094     |
|                    | 06/13/19 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0093     |
| MW-18              | 08/30/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0097     |
|                    | 06/13/19 | NS           | NS            | NS           | NS            | NS        | NS            | NS           | NS          |
| MW-19              | 08/30/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0099     |
|                    | 06/13/19 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0094     |
| MW-20              | 08/31/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0097     |
|                    | 06/13/19 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0092     |
| MW-21              | 08/31/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0098     |
|                    | 06/13/19 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0095     |
| MW-22              | 08/30/17 | <b>8,500</b> | <b>21,500</b> | <b>1,620</b> | <b>17,200</b> | <46       | <b>947 J</b>  | <b>452</b>   | <b>18.8</b> |
|                    | 06/13/19 | <b>3,040</b> | <b>9,720</b>  | <b>1,450</b> | <b>12,900</b> | <46       | <b>1,170</b>  | <b>106 J</b> | <b>4.4</b>  |
| MW-22<br>DUP C     | 06/13/19 | <b>3,340</b> | <b>9,250</b>  | <b>1,280</b> | <b>12,400</b> | <23       | <b>1,290</b>  | <31          | <b>3.9</b>  |
| MW-23              | 08/30/17 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | 0.012 J     |
|                    | 06/13/19 | <0.31        | <0.30         | <0.36        | <0.72         | <0.23     | <1.0          | <0.31        | <0.0094     |

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.           | Date     | Benzene     | Toluene      | Ethylbenzene | Xylenes       | MTBE      | Naphthalene | 1,2-DCA     | EDB         |
|--------------------|----------|-------------|--------------|--------------|---------------|-----------|-------------|-------------|-------------|
| <b>RBSL (µg/l)</b> |          | <b>5</b>    | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>   | <b>5</b>    | <b>0.05</b> |
| MW-24              | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0095     |
|                    | 06/13/19 | NS          | NS           | NS           | NS            | NS        | NS          | NS          | NS          |
| MW-25              | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0096     |
|                    | 06/13/19 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0093     |
| MW-26              | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0096     |
|                    | 06/13/19 | NS          | NS           | NS           | NS            | NS        | NS          | NS          | NS          |
| MW-27              | 08/31/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0096     |
|                    | 06/13/19 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | 1.4         | <0.0093     |
| MW-28              | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0096     |
|                    | 06/13/19 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0093     |
| MW-29              | 08/31/17 | 4.8         | <0.30        | 0.48 J       | <0.72         | 2.1       | <1.0        | <b>78.9</b> | <0.0095     |
|                    | 06/13/19 | <b>78.9</b> | 1.2          | 4.1          | 13.7          | 3.9       | 8.3         | <b>115</b>  | <0.0093     |
| MW-30              | 08/30/17 | <b>263</b>  | 5.3          | 16.2         | 25.3          | <1.1      | 14.5 J      | <b>57.7</b> | <0.0095     |
|                    | 06/13/19 | <b>584</b>  | 50.8         | 21.7         | 358           | <2.3      | <b>56.7</b> | <b>36.4</b> | <0.0093     |
| MW-31              | 08/30/17 | <b>120</b>  | 9.1          | 22.7         | 45.6          | <0.46     | 19.6        | <b>38.3</b> | <0.0095     |
|                    | 06/13/19 | NS          | NS           | NS           | NS            | NS        | NS          | NS          | NS          |
| TW-1               | 08/30/17 | <b>9.0</b>  | 0.51 J       | 4.3          | 5.6           | 6.5       | <1.0        | <b>65.7</b> | <0.0095     |
|                    | 06/12/19 | <b>10</b>   | 0.37 J       | 2.4          | 3.2           | 5.5       | <1.0        | <b>48.2</b> | <0.0093     |
| TW-2               | 08/30/17 | 0.92 J      | 0.46 J       | 0.52 J       | 1.9 J         | 0.40 J    | <1.0        | <b>8.4</b>  | <0.0096     |
|                    | 06/12/19 | <0.31       | <0.30        | <0.36        | <0.72         | 0.94 J    | <1.0        | <b>12.3</b> | <0.0093     |
| TW-3               | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0096     |
|                    | 06/12/19 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0093     |
| TW-4               | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | 0.53 J      | <0.0095     |
|                    | 06/13/19 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0094     |
| TW-5               | 08/30/17 | <0.31       | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0097     |
|                    | 06/13/19 | <0.31       | 0.60 J       | <0.36        | <0.72         | <0.23     | <1.0        | <0.31       | <0.0093     |



**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.                | Date     | Benzene  | Toluene      | Ethylbenzene | Xylenes       | MTBE      | Naphthalene | 1,2-DCA  | EDB         |
|-------------------------|----------|----------|--------------|--------------|---------------|-----------|-------------|----------|-------------|
| <b>RBSL (µg/l)</b>      |          | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>   | <b>5</b> | <b>0.05</b> |
| TW-6                    | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0096     |
|                         | 06/13/19 | NS       | NS           | NS           | NS            | NS        | NS          | NS       | NS          |
| TW-7                    | 08/29/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0096     |
|                         | 06/13/19 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0092     |
| TW-8                    | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0095     |
|                         | 06/13/19 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0094     |
| TW-9                    | 08/30/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0095     |
|                         | 06/13/19 | NS       | NS           | NS           | NS            | NS        | NS          | NS       | NS          |
| TW-10                   | 06/13/19 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0085     |
| TW-11                   | 06/13/19 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0093     |
| Field Blank             | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0096     |
|                         | 06/12/19 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | <0.0093     |
| Trip Blank              | 08/31/17 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | NR          |
|                         | 06/12/19 | <0.31    | <0.30        | <0.36        | <0.72         | <0.23     | <1.0        | <0.31    | NR          |
| WSW-1<br>(Pre)          | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 4.8      | <0.0080     |
| WSW-1<br>(Pre)<br>DUP C | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 4.7      | <0.0080     |
| WSW-1<br>(Post)         | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 1.4      | <0.0080     |
| WSW-2                   | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-3                   | 08/31/17 | 2.3      | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0082     |
| WSW-4                   | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-5                   | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-6                   | 08/31/17 | NS       | NS           | NS           | NS            | NS        | NS          | NS       | NS          |

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.           | Date     | Benzene  | Toluene      | Ethylbenzene | Xylenes       | MTBE      | Naphthalene | 1,2-DCA  | EDB         |
|--------------------|----------|----------|--------------|--------------|---------------|-----------|-------------|----------|-------------|
| <b>RBSL (µg/l)</b> |          | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b> | <b>25</b>   | <b>5</b> | <b>0.05</b> |
| WSW-7              | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-8<br>(Pre)     | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 2.1      | <0.0080     |
| WSW-8<br>(Post)    | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.43 J   | <0.0079     |
| WSW-9              | 08/31/17 | <0.20    | <0.20        | 0.43 J       | 2.2           | <0.20     | <0.20       | <0.20    | <0.0081     |
| WSW-10             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.41 J   | <0.0081     |
| WSW-11             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.33 J   | <0.0080     |
| WSW-12             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | 0.64 J   | <0.0082     |
| WSW-13             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-14             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | 0.91      | <0.20       | <0.20    | <0.0080     |
| WSW-15             | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW-X              | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0079     |
| WSW<br>Field Blank | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | <0.0080     |
| WSW<br>Trip Blank  | 08/31/17 | <0.20    | <0.20        | <0.20        | <0.20         | <0.20     | <0.20       | <0.20    | NR          |

Notes:

- Monitoring well samples analyzed for BTEX constituents, MTBE, naphthalene & 1,2-DCA by Method 8260B and EDB by Method 8011; results reported in µg/l.
- Water supply well samples analyzed for BTEX constituents, MTBE, naphthalene & 1,2-DCA by Method 524.2 and EDB by Method 504.1; results reported in µg/l.
- Concentrations in bold face type exceeded the RBSLs.
- RBSL: Risk-Based Screening Levels.
- J: Estimated value
- NS: Not sampled.

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES**  
**CHEMICALS OF CONCERN**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

**Date:** 07/03/19

| <b>Well No.</b>    | <b>Date</b> | <b>Benzene</b> | <b>Toluene</b> | <b>Ethylbenzene</b> | <b>Xylenes</b> | <b>MTBE</b> | <b>Naphthalene</b> | <b>1,2-DCA</b> | <b>EDB</b>  |
|--------------------|-------------|----------------|----------------|---------------------|----------------|-------------|--------------------|----------------|-------------|
| <b>RBSL (µg/l)</b> |             | <b>5</b>       | <b>1,000</b>   | <b>700</b>          | <b>10,000</b>  | <b>40</b>   | <b>25</b>          | <b>5</b>       | <b>0.05</b> |

• NR: Analysis not requested.

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES - OXYGENATES**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.                    | Date     | IPE        | ETBA      | Ethanol       | ETBE      | TAA           | TAME       | TBA          | TBF       |
|-----------------------------|----------|------------|-----------|---------------|-----------|---------------|------------|--------------|-----------|
| <b>Action Levels (µg/l)</b> |          | <b>150</b> | <b>NE</b> | <b>10,000</b> | <b>47</b> | <b>240</b>    | <b>128</b> | <b>1,400</b> | <b>NE</b> |
| MW-1                        | 08/31/17 | <4.8       | <200      | <1,600        | <4.7      | <b>2,750</b>  | <4.9       | <110         | <100      |
|                             | 06/13/19 | <4.8       | <200      | <1,600        | <4.7      | <b>2,950</b>  | <4.9       | <110         | <100      |
| MW-2                        | 08/31/17 | 0.45 J     | <10       | <82           | <0.24     | 86.8          | <0.24      | 429          | <5.0      |
|                             | 06/13/19 | 0.70 J     | <10       | <82           | <0.24     | 154           | <0.24      | 248          | <5.0      |
| MW-3                        | 08/30/17 | 30.0 J     | <1,000    | <8,200        | <24       | <b>11,700</b> | <24        | <530         | <500      |
|                             | 06/13/19 | <24        | <1,000    | <8,200        | <24       | <b>10,700</b> | <24        | <530         | <500      |
| MW-3<br>DUP A               | 08/30/17 | 35.6 J     | <1,000    | <8,200        | <24       | <b>10,800</b> | <24        | <530         | <500      |
|                             | 06/13/19 | <24        | <1,000    | <8,200        | <24       | <b>8,800</b>  | <24        | <530         | <500      |
| MW-4                        | 08/31/17 | <0.24      | <10       | <82           | <0.24     | 38.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | 46.4          | <0.24      | 7.6 J        | <5.0      |
| MW-5                        | 08/31/17 | <0.24      | <10       | <82           | <0.24     | 30.7          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
| MW-6                        | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
| MW-7                        | 08/31/17 | <2.4       | <100      | <820          | <2.4      | <b>2,230</b>  | <2.4       | <53          | <50       |
|                             | 06/13/19 | <1.2       | <50       | <410          | <1.2      | <b>1,080</b>  | <1.2       | <27          | <25       |
| MW-8                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
| MW-9                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
| MW-10                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
| MW-11                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | 23.0          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | 178           | <0.24      | 12.3 J       | <5.0      |
| MW-12                       | 08/30/17 | 9.6 J      | <200      | <1,600        | <4.7      | <b>3,970</b>  | <4.9       | <b>1,930</b> | <100      |
|                             | 06/13/19 | <4.8       | <200      | <1,600        | <4.7      | <b>4,090</b>  | <4.9       | 1,330        | <100      |
| MW-13                       | 08/30/17 | <2.4       | <100      | <820          | <2.4      | <b>3,680</b>  | <2.4       | <53          | <50       |
|                             | 06/13/19 | <4.8       | <200      | <1,600        | <4.7      | <b>3,310</b>  | <4.9       | <110         | <100      |
| MW-13<br>DUP B              | 08/30/17 | <4.8       | <200      | <1,600        | <4.7      | <b>3,830</b>  | <4.9       | <110         | <100      |
|                             | 06/13/19 | <4.8       | <200      | <1,600        | <4.7      | <b>2,810</b>  | <4.9       | <110         | <100      |
| MW-14                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | 35.8          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS            | NS         | NS           | NS        |
| MW-15                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS            | NS         | NS           | NS        |
| MW-16                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | 37.4          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS            | NS         | NS           | NS        |
| MW-17                       | 08/29/17 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3          | <0.24      | <5.3         | <5.0      |

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES - OXYGENATES**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.                    | Date     | IPE        | ETBA      | Ethanol       | ETBE      | TAA            | TAME       | TBA          | TBF       |
|-----------------------------|----------|------------|-----------|---------------|-----------|----------------|------------|--------------|-----------|
| <b>Action Levels (µg/l)</b> |          | <b>150</b> | <b>NE</b> | <b>10,000</b> | <b>47</b> | <b>240</b>     | <b>128</b> | <b>1,400</b> | <b>NE</b> |
| MW-18                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS             | NS         | NS           | NS        |
| MW-19                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-20                       | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-21                       | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-22                       | 08/30/17 | <48        | <2,000    | <16,000       | <47       | <b>6,370</b>   | <49        | <1,100       | <1,000    |
|                             | 06/13/19 | <48        | <2,000    | <16,000       | <47       | <b>2,490 J</b> | <49        | <1,100       | <1,000    |
| MW-22<br>DUP C              | 06/13/19 | <24        | <1,000    | <8,200        | <24       | <530           | <24        | <530         | <500      |
| MW-23                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-24                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS             | NS         | NS           | NS        |
| MW-25                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-26                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS             | NS         | NS           | NS        |
| MW-27                       | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-28                       | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| MW-29                       | 08/31/17 | 2.5 J      | <10       | <82           | <0.24     | <b>4,700</b>   | <0.24      | 388          | <5.0      |
|                             | 06/13/19 | 4.4        | <10       | <82           | <0.24     | <b>8,140</b>   | <0.24      | 596          | <5.0      |
| MW-30                       | 08/30/17 | 4.0 J      | <50       | <410          | <1.2      | <b>2,480</b>   | <1.2       | 694          | <25       |
|                             | 06/13/19 | <2.4       | <100      | <820          | <2.4      | <b>2,130</b>   | <2.4       | <53          | <50       |
| MW-31                       | 08/30/17 | 1.6 J      | <20       | <160          | <0.47     | <b>602</b>     | <0.49      | 50.4         | <10       |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS             | NS         | NS           | NS        |
| TW-1                        | 08/30/17 | 1.5 J      | <10       | <82           | <0.24     | <b>1,080</b>   | <0.24      | 67.8         | <5.0      |
|                             | 06/12/19 | 1.5        | <10       | <82           | <0.24     | <b>1,180 E</b> | <0.24      | 77.6         | <5.0      |
| TW-2                        | 08/30/17 | 0.58 J     | <10       | <82           | <0.24     | <b>321</b>     | <0.24      | 19.8 J       | <5.0      |
|                             | 06/12/19 | 1.1        | <10       | <82           | <0.24     | <b>735</b>     | <0.24      | 41.5         | <5.0      |
| TW-3                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/12/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| TW-4                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
| TW-5                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3           | <0.24      | <5.3         | <5.0      |

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES - OXYGENATES**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.                    | Date     | IPE        | ETBA      | Ethanol       | ETBE      | TAA        | TAME       | TBA          | TBF       |
|-----------------------------|----------|------------|-----------|---------------|-----------|------------|------------|--------------|-----------|
| <b>Action Levels (µg/l)</b> |          | <b>150</b> | <b>NE</b> | <b>10,000</b> | <b>47</b> | <b>240</b> | <b>128</b> | <b>1,400</b> | <b>NE</b> |
| TW-6                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS         | NS         | NS           | NS        |
| TW-7                        | 08/29/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-8                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-9                        | 08/30/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
|                             | 06/13/19 | NS         | NS        | NS            | NS        | NS         | NS         | NS           | NS        |
| TW-10                       | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| TW-11                       | 06/13/19 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| Field Blank                 | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
|                             | 06/12/19 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| Trip Blank                  | 08/31/17 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
|                             | 06/12/19 | <0.24      | <10       | <82           | <0.24     | <5.3       | <0.24      | <5.3         | <5.0      |
| WSW-1 (Pre)                 | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 160        | <0.42      | 37           | <2.0      |
| WSW-1 (Pre) DUP C           | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 160        | <0.42      | 38           | <2.0      |
| WSW-1 (Post)                | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 110        | <0.42      | 41           | <2.0      |
| WSW-2                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-3                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | 39           | <2.0      |
| WSW-4                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-5                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-6                       | 08/31/17 | NS         | NS        | NS            | NS        | NS         | NS         | NS           | NS        |
| WSW-7                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-8 (Pre)                 | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 38         | <0.42      | <8.0         | <2.0      |
| WSW-8 (Post)                | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | 8.5 J      | <0.42      | <8.0         | <2.0      |
| WSW-9                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-10                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-11                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-12                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-13                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-14                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-15                      | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW-X                       | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYTICAL RESULTS**  
**GROUND WATER SAMPLES - OXYGENATES**  
**378 TRUCK STOP**  
**UST PERMIT # 07960**

Date: 07/03/19

| Well No.                    | Date     | IPE        | ETBA      | Ethanol       | ETBE      | TAA        | TAME       | TBA          | TBF       |
|-----------------------------|----------|------------|-----------|---------------|-----------|------------|------------|--------------|-----------|
| <b>Action Levels (µg/l)</b> |          | <b>150</b> | <b>NE</b> | <b>10,000</b> | <b>47</b> | <b>240</b> | <b>128</b> | <b>1,400</b> | <b>NE</b> |
| WSW<br>Field Blank          | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |
| WSW<br>Trip Blank           | 08/31/17 | <0.40      | <8.0      | <40           | <0.40     | <8.0       | <0.42      | <8.0         | <2.0      |

Notes:

- Analyses for selected oxygenates by EPA Method 8260B; results reported in µg/l.
- <: Less than the method detection limit specified in the laboratory report.
- J: Estimated concentrations less than the Reporting Limit but greater than or equal to the Method Detection Limit.
- NS: Not sampled.
- NE: Not established.

**TABLE 4**  
**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS**  
**378 TRUCK STOP**  
**UST PERMIT #07960**

Date: 06/18/19

| Analytical Method →           |                           |                           | SW846 6010D/SW846 7471B |                |                  |            |           |
|-------------------------------|---------------------------|---------------------------|-------------------------|----------------|------------------|------------|-----------|
| Contaminant of Concern →      |                           |                           | Arsenic                 | Barium         | Chromium         | Lead       | Mercury   |
| Well ID                       | Date Collected (mm/dd/yy) | Depth Collected (in feet) |                         |                |                  |            |           |
| <b>Resident SSL (mg/kg)</b>   |                           |                           | <b>0.68</b>             | <b>15,000</b>  | <b>120,000</b>   | <b>400</b> | <b>11</b> |
| <b>Industrial SSL (mg/kg)</b> |                           |                           | <b>3.0</b>              | <b>220,000</b> | <b>1,800,000</b> | <b>800</b> | <b>46</b> |
| SB-1 (10')                    | 05/22/19                  | 10                        | <b>8.8</b>              | 61.5           | 32.7             | 7.6        | <0.047    |
| SB-2 (10')                    | 05/22/19                  | 10                        | <b>5.1</b>              | 249            | 26.6             | 14.3       | <0.044    |
| SB-3 (5')                     | 05/22/19                  | 5                         | <b>4.4</b>              | 115            | 30.4             | 11.3       | <0.047    |
| SB-4 (10')                    | 05/22/19                  | 10                        | <b>6.7</b>              | 102            | 34.8             | 68.1       | 0.052     |
| SB-5 (5')                     | 05/22/19                  | 5                         | <b>4.8</b>              | <61            | 26.6             | 6.3        | <0.042    |
| SB-6 (5')                     | 05/22/19                  | 5                         | <b>4.7</b>              | 47.3           | 25.5             | 11.7       | 0.041     |
| SB-7 (5')                     | 05/22/19                  | 5                         | <b>5.9</b>              | 102            | 27.5             | 12.0       | <0.046    |
| SB-8 (10')                    | 05/22/19                  | 10                        | <b>3.9</b>              | 106            | 33.5             | 6.2        | <0.042    |
| SB-9 (10')                    | 05/22/19                  | 10                        | <b>7.2</b>              | 98.5           | 26.8             | 12.6       | <0.042    |
| SB-10 (5')                    | 05/22/19                  | 5                         | <b>7.0</b>              | 61.8           | 38.4             | 11.6       | <0.051    |

Notes:

- Concentrations reported in milligrams per kilogram (mg/kg).
- SSL: Soil Screening Level from EPA's Regional Screening Levels - Generic Tables.
- Concentrations in bold face type exceeded Resident SSLs.
- Concentrations in italic type exceeded Industrial SSLs.
- <: Concentration is less than method detection limit specified in the laboratory report.



## **APPENDICES**

**APPENDIX A**

**Soil Boring Logs, Well Construction Records, Well Development Forms**

Geological Resources, Inc.  
 3502 Hayes Road  
 Monroe, NC 28110

Phone: (704) 845-4010  
 Fax: (704) 845-4012

**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number SB-1 Date Drilled 05/22/19  
 Sample Method Grab sample Drilling Method 6.25" S.S.A.  
 Completion Details Backfilled with soil cuttings  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY               |
|------------|------------|---------------------|---------|-------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay |
| 2          |            |                     |         |                         |
| 4          |            |                     |         |                         |
| 6          |            | 5                   | 0.4     | 5-10'; Red Sandy Clay   |
| 8          |            |                     |         |                         |
| 10         | SB-1 (10') | 10                  | 0.5     | Total Depth 10'         |
| 12         |            |                     |         |                         |
| 14         |            |                     |         |                         |
| 16         |            |                     |         |                         |
| 18         |            |                     |         |                         |
| 20         |            |                     |         |                         |
| 22         |            |                     |         |                         |
| 24         |            |                     |         |                         |
| 26         |            |                     |         |                         |
| 28         |            |                     |         |                         |
| 30         |            |                     |         |                         |
| 32         |            |                     |         |                         |
| 34         |            |                     |         |                         |
| 36         |            |                     |         |                         |

Geological Resources, Inc.  
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**SUBSURFACE LOG**

|                    |   |                 |                          |
|--------------------|---|-----------------|--------------------------|
| Project            | <b>378 Truck Stop</b>                       |                 |                          |
| Address            | <b>731 Highway 378, Edgefield, SC 29824</b> |                 |                          |
| Boring Number      | <b>SB-2</b>                                 | Date Drilled    | <b>05/22/19</b>          |
| Sample Method      | <b>Grab sample</b>                          | Drilling Method | <b>6.25" S.S.A.</b>      |
| Completion Details | <b>Backfilled with soil cuttings</b>        |                 |                          |
| Driller            | <b>REDI (Bryan Vest)</b>                    | Log By          | <b>Justin Armentrout</b> |

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY               |
|------------|------------|---------------------|---------|-------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay |
| 2          |            |                     |         |                         |
| 4          |            |                     |         |                         |
| 6          |            | 5                   | 0.4     | 5-10'; Red Sandy Clay   |
| 8          |            |                     |         |                         |
| 10         | SB-2 (10') | 10                  | 0.6     | Total Depth 10'         |
| 12         |            |                     |         |                         |
| 14         |            |                     |         |                         |
| 16         |            |                     |         |                         |
| 18         |            |                     |         |                         |
| 20         |            |                     |         |                         |
| 22         |            |                     |         |                         |
| 24         |            |                     |         |                         |
| 26         |            |                     |         |                         |
| 28         |            |                     |         |                         |
| 30         |            |                     |         |                         |
| 32         |            |                     |         |                         |
| 34         |            |                     |         |                         |
| 36         |            |                     |         |                         |

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**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number SB-3 Date Drilled 05/22/19  
 Sample Method Grab sample Drilling Method 6.25" S.S.A.  
 Completion Details Backfilled with soil cuttings  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY                     |
|------------|------------|---------------------|---------|-------------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay       |
| 2          |            |                     |         |                               |
| 4          |            |                     |         |                               |
| 6          | SB-3 (5')  | 5                   | 0.4     | Total Depth 5'; auger refusal |
| 8          |            |                     |         |                               |
| 10         |            |                     |         |                               |
| 12         |            |                     |         |                               |
| 14         |            |                     |         |                               |
| 16         |            |                     |         |                               |
| 18         |            |                     |         |                               |
| 20         |            |                     |         |                               |
| 22         |            |                     |         |                               |
| 24         |            |                     |         |                               |
| 26         |            |                     |         |                               |
| 28         |            |                     |         |                               |
| 30         |            |                     |         |                               |
| 32         |            |                     |         |                               |
| 34         |            |                     |         |                               |
| 36         |            |                     |         |                               |

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**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number SB-4 Date Drilled 05/22/19  
 Sample Method Grab sample Drilling Method 6.25" S.S.A.  
 Completion Details Backfilled with soil cuttings  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY               |
|------------|------------|---------------------|---------|-------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay |
| 2          |            |                     |         |                         |
| 4          |            |                     |         |                         |
| 6          |            | 5                   | 1.4     | 5-10'; Red Sandy Clay   |
| 8          |            |                     |         |                         |
| 10         | SB-4 (10') | 10                  | 3.3     | Total Depth 10'         |
| 12         |            |                     |         |                         |
| 14         |            |                     |         |                         |
| 16         |            |                     |         |                         |
| 18         |            |                     |         |                         |
| 20         |            |                     |         |                         |
| 22         |            |                     |         |                         |
| 24         |            |                     |         |                         |
| 26         |            |                     |         |                         |
| 28         |            |                     |         |                         |
| 30         |            |                     |         |                         |
| 32         |            |                     |         |                         |
| 34         |            |                     |         |                         |
| 36         |            |                     |         |                         |

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### SUBSURFACE LOG

|                    |                                      |                 |                   |
|--------------------|--------------------------------------|-----------------|-------------------|
| Project            | 378 Truck Stop                       |                 |                   |
| Address            | 731 Highway 378, Edgefield, SC 29824 |                 |                   |
| Boring Number      | SB-5                                 | Date Drilled    | 05/22/19          |
| Sample Method      | Grab sample                          | Drilling Method | 6.25" S.S.A.      |
| Completion Details | Backfilled with soil cuttings        |                 |                   |
| Driller            | REDI (Bryan Vest)                    | Log By          | Justin Armentrout |

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY                     |
|------------|------------|---------------------|---------|-------------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay       |
| 2          |            |                     |         |                               |
| 4          |            |                     |         |                               |
| 6          | SB-5 (5')  | 5                   | 0.6     | Total Depth 5'; auger refusal |
| 8          |            |                     |         |                               |
| 10         |            |                     |         |                               |
| 12         |            |                     |         |                               |
| 14         |            |                     |         |                               |
| 16         |            |                     |         |                               |
| 18         |            |                     |         |                               |
| 20         |            |                     |         |                               |
| 22         |            |                     |         |                               |
| 24         |            |                     |         |                               |
| 26         |            |                     |         |                               |
| 28         |            |                     |         |                               |
| 30         |            |                     |         |                               |
| 32         |            |                     |         |                               |
| 34         |            |                     |         |                               |
| 36         |            |                     |         |                               |

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### SUBSURFACE LOG

|                    |                                      |                 |                   |
|--------------------|--------------------------------------|-----------------|-------------------|
| Project            | 378 Truck Stop                       |                 |                   |
| Address            | 731 Highway 378, Edgefield, SC 29824 |                 |                   |
| Boring Number      | SB-6                                 | Date Drilled    | 05/22/19          |
| Sample Method      | Grab sample                          | Drilling Method | 6.25" S.S.A.      |
| Completion Details | Backfilled with soil cuttings        |                 |                   |
| Driller            | REDI (Bryan Vest)                    | Log By          | Justin Armentrout |

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY                     |
|------------|------------|---------------------|---------|-------------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay       |
| 2          |            |                     |         |                               |
| 4          |            |                     |         |                               |
| 6          | SB-6 (5')  | 5                   | 1.7     | Total Depth 5'; auger refusal |
| 8          |            |                     |         |                               |
| 10         |            |                     |         |                               |
| 12         |            |                     |         |                               |
| 14         |            |                     |         |                               |
| 16         |            |                     |         |                               |
| 18         |            |                     |         |                               |
| 20         |            |                     |         |                               |
| 22         |            |                     |         |                               |
| 24         |            |                     |         |                               |
| 26         |            |                     |         |                               |
| 28         |            |                     |         |                               |
| 30         |            |                     |         |                               |
| 32         |            |                     |         |                               |
| 34         |            |                     |         |                               |
| 36         |            |                     |         |                               |



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### SUBSURFACE LOG

|                    |                                      |                 |                   |
|--------------------|--------------------------------------|-----------------|-------------------|
| Project            | 378 Truck Stop                       |                 |                   |
| Address            | 731 Highway 378, Edgefield, SC 29824 |                 |                   |
| Boring Number      | SB-7                                 | Date Drilled    | 05/22/19          |
| Sample Method      | Grab sample                          | Drilling Method | 6.25" S.S.A.      |
| Completion Details | Backfilled with soil cuttings        |                 |                   |
| Driller            | REDI (Bryan Vest)                    | Log By          | Justin Armentrout |

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY                     |
|------------|------------|---------------------|---------|-------------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay       |
| 2          |            |                     |         |                               |
| 4          |            |                     |         |                               |
| 6          | SB-7 (5')  | 5                   | 2.0     | Total Depth 5'; auger refusal |
| 8          |            |                     |         |                               |
| 10         |            |                     |         |                               |
| 12         |            |                     |         |                               |
| 14         |            |                     |         |                               |
| 16         |            |                     |         |                               |
| 18         |            |                     |         |                               |
| 20         |            |                     |         |                               |
| 22         |            |                     |         |                               |
| 24         |            |                     |         |                               |
| 26         |            |                     |         |                               |
| 28         |            |                     |         |                               |
| 30         |            |                     |         |                               |
| 32         |            |                     |         |                               |
| 34         |            |                     |         |                               |
| 36         |            |                     |         |                               |

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**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number SB-8 Date Drilled 05/22/19  
 Sample Method Grab sample Drilling Method 6.25" S.S.A.  
 Completion Details Backfilled with soil cuttings  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY               |
|------------|------------|---------------------|---------|-------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay |
| 2          |            |                     |         |                         |
| 4          |            |                     |         |                         |
| 6          |            | 5                   | 0.6     | 5-10'; Red Sandy Clay   |
| 8          |            |                     |         |                         |
| 10         | SB-8 (10') | 10                  | 1.1     | Total Depth 10'         |
| 12         |            |                     |         |                         |
| 14         |            |                     |         |                         |
| 16         |            |                     |         |                         |
| 18         |            |                     |         |                         |
| 20         |            |                     |         |                         |
| 22         |            |                     |         |                         |
| 24         |            |                     |         |                         |
| 26         |            |                     |         |                         |
| 28         |            |                     |         |                         |
| 30         |            |                     |         |                         |
| 32         |            |                     |         |                         |
| 34         |            |                     |         |                         |
| 36         |            |                     |         |                         |

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**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number SB-9 Date Drilled 05/22/19  
 Sample Method Grab sample Drilling Method 6.25" S.S.A.  
 Completion Details Backfilled with soil cuttings  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY               |
|------------|------------|---------------------|---------|-------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay |
| 2          |            |                     |         |                         |
| 4          |            |                     |         |                         |
| 6          |            | 5                   | 0.5     | 5-10'; Red Sandy Clay   |
| 8          |            |                     |         |                         |
| 10         | SB-9 (10') | 10                  | 0.0     | Total Depth 10'         |
| 12         |            |                     |         |                         |
| 14         |            |                     |         |                         |
| 16         |            |                     |         |                         |
| 18         |            |                     |         |                         |
| 20         |            |                     |         |                         |
| 22         |            |                     |         |                         |
| 24         |            |                     |         |                         |
| 26         |            |                     |         |                         |
| 28         |            |                     |         |                         |
| 30         |            |                     |         |                         |
| 32         |            |                     |         |                         |
| 34         |            |                     |         |                         |
| 36         |            |                     |         |                         |

Geological Resources, Inc.  
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**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number SB-10 Date Drilled 05/22/19  
 Sample Method Grab sample Drilling Method 6.25" S.S.A.  
 Completion Details Backfilled with soil cuttings  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | PID ppm | LITHOLOGY                     |
|------------|------------|---------------------|---------|-------------------------------|
| 0          |            |                     |         | 0'-0.5'; Red Sandy Clay       |
| 2          |            |                     |         |                               |
| 4          |            |                     |         |                               |
| 6          | SB-10 (5') | 5                   | 0.5     | Total Depth 5'; auger refusal |
| 8          |            |                     |         |                               |
| 10         |            |                     |         |                               |
| 12         |            |                     |         |                               |
| 14         |            |                     |         |                               |
| 16         |            |                     |         |                               |
| 18         |            |                     |         |                               |
| 20         |            |                     |         |                               |
| 22         |            |                     |         |                               |
| 24         |            |                     |         |                               |
| 26         |            |                     |         |                               |
| 28         |            |                     |         |                               |
| 30         |            |                     |         |                               |
| 32         |            |                     |         |                               |
| 34         |            |                     |         |                               |
| 36         |            |                     |         |                               |

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**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number TW-10 Date Drilled 05/21/19  
 Sample Method Grab Sample Drilling Method 6.25" H.S.A. and 8" A. H.  
 Completion Details 6" surface casing to 45', well depth 65', S'screen  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | OVA ppm | LITHOLOGY                                   |
|------------|------------|---------------------|---------|---|
| 0          |            |                     |         | 0' - 0.5' Topsoil; 0.5' - 25' Tan Fine Sand |
| 2          |            |                     |         |   |
| 4          |            |                     |         |   |
| 6          |            |                     |         |   |
| 8          |            |                     |         |   |
| 10         |            |                     |         |   |
| 12         |            |                     |         |   |
| 14         |            |                     |         |   |
| 16         |            |                     |         |   |
| 18         |            |                     |         |   |
| 20         |            |                     |         |   |
| 22         |            |                     |         |   |
| 24         |            |                     |         |   |
| 26         |            |                     |         | 25' - 45' Grey Fine Sand                    |
| 28         |            |                     |         |   |
| 30         |            |                     |         |   |
| 32         |            |                     |         |   |
| 34         |            |                     |         |   |
| 36         |            |                     |         | 35' Fracture - Water Present                |
| 38         |            |                     |         |   |
| 40         |            |                     |         |   |
| 42         |            |                     |         |   |
| 44         |            |                     |         |   |
| 46         |            |                     |         | 45'-65' Grey Rock                           |
| 48         |            |                     |         |   |
| 50         |            |                     |         |   |
| 51         |            |                     |         |   |
| 52         |            |                     |         |   |
| 53         |            |                     |         |   |
| 54         |            |                     |         |   |
| 55         |            |                     |         |   |
| 56         |            |                     |         |   |
| 57         |            |                     |         |   |
| 58         |            |                     |         |   |
| 59         |            |                     |         |   |
| 60         |            |                     |         |   |
| 61         |            |                     |         |   |
| 62         |            |                     |         |   |
| 63         |            |                     |         |   |
| 64         |            |                     |         |   |
| 65         |            |                     |         | Total Depth 65'                             |

Geological Resources, Inc.  
 3502 Hayes Road  
 Monroe, NC 28110

Phone: (704) 845-4010  
 Fax: (704) 845-4012

**SUBSURFACE LOG**

Project 378 Truck Stop  
 Address 731 Highway 378, Edgefield, SC 29824  
 Boring Number TW-11 Date Drilled 05/22/19  
 Sample Method Grab Sample Drilling Method 6.25" H.S.A. and 8" A. H.  
 Completion Details 6" surface casing to 45', well depth 60', 5'screen  
 Driller REDI (Bryan Vest) Log By Justin Armentrout

| Depth (ft) | Lab Sample | Sample Interval(ft) | OVA ppm | LITHOLOGY   |
|------------|------------|---------------------|---------|---|
| 0          |            |                     |         | 0' - 0.5' Topsoil; 0.5' - 5' Brown Clayey Fine Sand |
| 2          |            |                     |         |   |
| 4          |            |                     |         |   |
| 6          |            |                     |         | 5' - 40' Tan Sandy Clay                             |
| 8          |            |                     |         |   |
| 10         |            |                     |         |   |
| 12         |            |                     |         |   |
| 14         |            |                     |         |   |
| 16         |            |                     |         |   |
| 18         |            |                     |         |   |
| 20         |            |                     |         |   |
| 22         |            |                     |         |   |
| 24         |            |                     |         |   |
| 26         |            |                     |         |   |
| 28         |            |                     |         |   |
| 30         |            |                     |         |   |
| 32         |            |                     |         |   |
| 34         |            |                     |         |   |
| 36         |            |                     |         |   |
| 38         |            |                     |         |   |
| 40         |            |                     |         | 40'-60' Grey Rock                                   |
| 42         |            |                     |         |   |
| 44         |            |                     |         |   |
| 46         |            |                     |         |   |
| 48         |            |                     |         |   |
| 50         |            |                     |         |   |
| 51         |            |                     |         |   |
| 52         |            |                     |         |   |
| 53         |            |                     |         |   |
| 54         |            |                     |         |   |
| 55         |            |                     |         | 55' Fracture - Water Present                        |
| 56         |            |                     |         |   |
| 57         |            |                     |         |   |
| 58         |            |                     |         |   |
| 59         |            |                     |         |   |
| 60         |            |                     |         | Total Depth 60'                                     |
| 61         |            |                     |         |   |
| 62         |            |                     |         |   |
| 63         |            |                     |         |   |
| 64         |            |                     |         |   |
| 65         |            |                     |         |   |









**Well Development Data Verification Form**  
Underground Storage Tank Management Division

Facility Name: GR I Site ID#: 07960  
 Date: 05/22/19 Field Personnel: Justin Armentout Alex Lin  
 Drilling Company: R.E.D.I. Driller's Name: Bryan Vest  
 Driller's Certification Number: 82188 Weather Conditions: sunny

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                             |                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| pH meter                    | Conductivity meter          | Temperature meter           | Turbidity meter             |
| serial no. <u>19A102754</u> | serial no. <u>19A102754</u> | serial no. <u>19A102754</u> | serial no. <u>19A102754</u> |
| pH=4.0 <u>4.08</u>          | standard <u>1413 uS/cm</u>  |                             | NTU=0.0 <u>0.25</u>         |
| pH=7.0 <u>7.02</u>          |                             |                             | NTU=1.0 <u>~</u>            |
| pH=10.0 <u>10.0</u>         |                             |                             | NTU=10.0 <u>~</u>           |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# TW-10 Well Casing Diameter 8" inches Borehole Diameter 5" inches  
 Depth to Ground Water (DGW) 36.93 ft. Screen Length/Slot Size 5' ft/ 0.0010 in.  
 Total Well Depth (TWD) 66.91 ft. Screen Interval 65 ft. to 60 ft.  
 Length of water column (LWC=TWD-DGW) 29.98 ft. Type of Drilling Fluids used: N/A  
 Total Gallons of Water Removed: 14 gals. Drilling Fluids recovered N/A gals.

|                                       |                  |               |                  |              |  |  |  |
|---------------------------------------|------------------|---------------|------------------|--------------|--|--|--|
| Time (military)                       | <u>0835</u>      | <u>0916</u>   | <u>1019</u>      |              |  |  |  |
| pH (s.u.)*                            | <u>9.20</u>      | <u>10.61</u>  | <u>9.31</u>      |              |  |  |  |
| Specific Conductivity (mmhos/cm)*     | <u>323.8</u>     | <u>607</u>    | <u>350.1</u>     |              |  |  |  |
| Water Temperature (C)*                | <u>22.4</u>      | <u>20.9</u>   | <u>21.1</u>      |              |  |  |  |
| Turbidity (NTU) *                     | <u>9511.3</u>    | <u>1496</u>   | <u>938.01</u>    |              |  |  |  |
| Physical Characteristics (color/odor) | <u>Milky</u>     | <u>Milky</u>  | <u>64.68</u>     |              |  |  |  |
| Water Level Measurement (ft) from TOC | <u>36.93</u>     | <u>36.93</u>  | <u>36.93</u>     | <u>36.93</u> |  |  |  |
| Total Well Depth (ft) from TOC        | <u>66.91</u>     | <u>66.91</u>  | <u>66.91</u>     | <u>66.91</u> |  |  |  |
| Cumulative Gallons Removed            | <u>0.25</u> gals | <u>7</u> gals | <u>7.13</u> gals |              |  |  |  |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process:

USED submersible pump to develop well  
well went dry @ 7.13 gals

Driller Signature: Bryan Vest Date: 5/22/19



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: GRI Site ID#: 07960  
 Date: 5/22/19 Field Personnel: Justin Armentrout Alex Lin  
 Drilling Company: R.E.O.I Driller's Name: Bryan Vest  
 Driller's Certification Number: B 2188 Weather Conditions: Sunny

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                             |   |                             |                             |
|-----------------------------|---|-----------------------------|-----------------------------|
| pH meter                    | Conductivity meter                        | Temperature meter           | Turbidity meter             |
| serial no. <u>19A102754</u> | serial no. <u>19A102754</u>               | serial no. <u>19A102754</u> | serial no. <u>19A102754</u> |
| pH=4.0 <u>4.08</u>          | standard <u>1913 <math>\mu</math>S/cm</u> |                             | NTU=0.0 <u>0.25</u>         |
| pH=7.0 <u>7.02</u>          |   |                             | NTU=1.0 <u>—</u>            |
| pH=10.0 <u>10.0</u>         |   |                             | NTU=10.0 <u>—</u>           |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# TW-11 Well Casing Diameter 8" inches Borehole Diameter 5" inches  
 Depth to Ground Water (DGW) 4.73 ft. Screen Length/Slot Size          ft./          in.  
 Total Well Depth (TWD) 60.39 ft. Screen Interval 60 ft. to 55 ft.  
 Length of water column (LWC=TWD-DGW) 50.66 ft. Type of Drilling Fluids used: N/A  
 Total Gallons of Water Removed: 20 gals. Drilling Fluids recovered N/A gals.

|                                       |                |                |                 |      |      |      |      |
|---------------------------------------|----------------|----------------|-----------------|------|------|------|------|
| Time (military)                       | <u>1447</u>    | <u>1512</u>    |                 |      |      |      |      |
| pH (s.u.)*                            | <u>11.59</u>   | <u>10.05</u>   |                 |      |      |      |      |
| Specific Conductivity (mmhos/cm)*     | <u>1708</u>    | <u>369.5</u>   |                 |      |      |      |      |
| Water Temperature (C)*                | <u>26.7</u>    | <u>22.8</u>    |                 |      |      |      |      |
| Turbidity (NTU) *                     | <u>58.80</u>   | <u>326.8</u>   |                 |      |      |      |      |
| Physical Characteristics (color/odor) | <u>Smoky</u>   | <u>smoky</u>   |                 |      |      |      |      |
| Water Level Measurement (ft) from TOC | <u>4.73</u>    | <u>29.38</u>   | <u>66</u>       |      |      |      |      |
| Total Well Depth (ft) from TOC        | <u>60.39</u>   | <u>60.39</u>   |                 |      |      |      |      |
| Cumulative Gallons Removed            | <u>10</u> gals | <u>10</u> gals | <u>Dry</u> gals | gals | gals | gals | gals |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .

Detailed description of Well Development process: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Driller Signature: Bryan Vest Date: 5/22/19

**APPENDIX B**

**Laboratory Analytical Reports – Soil and Ground Water Samples**

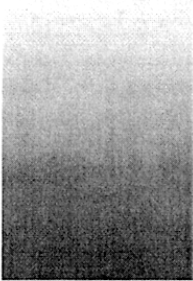


Orlando, FL

06/05/19

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0  
Automated Report*



Technical Report for

GRI (Geological Resources Inc.)

378 Truck Stop; 731 Hwy 378, Edgefield, SC

07960/4422

SGS Job Number: FA64469

Sampling Date: 05/22/19

Report to:

GRI  
3502 Hayes Rd  
Monroe, NC 28110  
wsb@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com;  
jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com;  
ATTN: Scott Ball

Total number of pages in report: 65



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

*Caitlin Brice*  
Caitlin Brice, M.S.  
General Manager

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(TJ104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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### Sample Summary

GRI (Geological Resources Inc.)

Job No: FA64469

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
 Project No: 07960/4422

| Sample Number | Collected |          | Received | Matrix |      | Client Sample ID |
|---------------|-----------|----------|----------|--------|------|------------------|
|               | Date      | Time By  |          | Code   | Type |                  |
| FA64469-1     | 05/22/19  | 11:35 JA | 05/24/19 | SO     | Soil | 07960 SB-1 (10') |
| FA64469-2     | 05/22/19  | 11:48 JA | 05/24/19 | SO     | Soil | 07960 SB-2 (10') |
| FA64469-3     | 05/22/19  | 11:53 JA | 05/24/19 | SO     | Soil | 07960 SB-3 (5')  |
| FA64469-4     | 05/22/19  | 11:59 JA | 05/24/19 | SO     | Soil | 07960 SB-4 (10') |
| FA64469-5     | 05/22/19  | 12:05 JA | 05/24/19 | SO     | Soil | 07960 SB-5 (5')  |
| FA64469-6     | 05/22/19  | 12:21 JA | 05/24/19 | SO     | Soil | 07960 SB-6 (5')  |
| FA64469-7     | 05/22/19  | 12:24 JA | 05/24/19 | SO     | Soil | 07960 SB-7 (5')  |
| FA64469-8     | 05/22/19  | 12:37 JA | 05/24/19 | SO     | Soil | 07960 SB-8 (10') |
| FA64469-9     | 05/22/19  | 12:50 JA | 05/24/19 | SO     | Soil | 07960 SB-9 (10') |
| FA64469-10    | 05/22/19  | 12:59 JA | 05/24/19 | SO     | Soil | 07960 SB-10 (5') |

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Summary of Hits

2

**Job Number:** FA64469  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 05/22/19

| Lab Sample ID         | Client Sample ID        | Result/<br>Qual | RL    | MDL | Units | Method      |
|-----------------------|-------------------------|-----------------|-------|-----|-------|-------------|
| <b>FA64469-1</b>      | <b>07960 SB-1 (10')</b> |                 |       |     |       |             |
| Arsenic <sup>a</sup>  |                         | 8.8             | 2.7   |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 61.5            | 54    |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 32.7            | 2.7   |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 7.6             | 5.4   |     | mg/kg | SW846 6010D |
| <b>FA64469-2</b>      | <b>07960 SB-2 (10')</b> |                 |       |     |       |             |
| Arsenic               |                         | 5.1             | 4.4   |     | mg/kg | SW846 6010D |
| Barium                |                         | 249             | 87    |     | mg/kg | SW846 6010D |
| Chromium              |                         | 26.6            | 4.4   |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 14.3            | 4.4   |     | mg/kg | SW846 6010D |
| <b>FA64469-3</b>      | <b>07960 SB-3 (5')</b>  |                 |       |     |       |             |
| Arsenic <sup>a</sup>  |                         | 4.4             | 2.4   |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 115             | 49    |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 30.4            | 2.4   |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 11.3            | 4.9   |     | mg/kg | SW846 6010D |
| <b>FA64469-4</b>      | <b>07960 SB-4 (10')</b> |                 |       |     |       |             |
| Arsenic <sup>a</sup>  |                         | 6.7             | 2.8   |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 102             | 56    |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 34.8            | 2.8   |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 68.1            | 5.6   |     | mg/kg | SW846 6010D |
| Mercury               |                         | 0.052           | 0.045 |     | mg/kg | SW846 7471B |
| <b>FA64469-5</b>      | <b>07960 SB-5 (5')</b>  |                 |       |     |       |             |
| Arsenic <sup>a</sup>  |                         | 4.8             | 3.0   |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 26.6            | 3.0   |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 6.3             | 6.1   |     | mg/kg | SW846 6010D |
| <b>FA64469-6</b>      | <b>07960 SB-6 (5')</b>  |                 |       |     |       |             |
| Arsenic <sup>a</sup>  |                         | 4.7             | 2.1   |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 47.3            | 41    |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 25.5            | 2.1   |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 11.7            | 4.1   |     | mg/kg | SW846 6010D |
| Mercury               |                         | 0.041           | 0.036 |     | mg/kg | SW846 7471B |

## Summary of Hits



**Job Number:** FA64469  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 05/22/19

| Lab Sample ID         | Client Sample ID        | Result/<br>Qual | RL  | MDL | Units | Method      |
|-----------------------|-------------------------|-----------------|-----|-----|-------|-------------|
| <b>FA64469-7</b>      | <b>07960 SB-7 (5')</b>  |                 |     |     |       |             |
| Arsenic <sup>a</sup>  |                         | 5.9             | 2.4 |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 102             | 48  |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 27.5            | 2.4 |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 12.0            | 4.8 |     | mg/kg | SW846 6010D |
| <b>FA64469-8</b>      | <b>07960 SB-8 (10')</b> |                 |     |     |       |             |
| Arsenic <sup>a</sup>  |                         | 3.9             | 2.8 |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 106             | 57  |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 33.5            | 2.8 |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 6.2             | 5.7 |     | mg/kg | SW846 6010D |
| <b>FA64469-9</b>      | <b>07960 SB-9 (10')</b> |                 |     |     |       |             |
| Arsenic <sup>a</sup>  |                         | 7.2             | 2.3 |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 98.5            | 45  |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 26.8            | 2.3 |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 12.6            | 4.5 |     | mg/kg | SW846 6010D |
| <b>FA64469-10</b>     | <b>07960 SB-10 (5')</b> |                 |     |     |       |             |
| Arsenic <sup>a</sup>  |                         | 7.0             | 2.1 |     | mg/kg | SW846 6010D |
| Barium <sup>a</sup>   |                         | 61.8            | 43  |     | mg/kg | SW846 6010D |
| Chromium <sup>a</sup> |                         | 38.4            | 2.1 |     | mg/kg | SW846 6010D |
| Lead <sup>a</sup>     |                         | 11.6            | 4.3 |     | mg/kg | SW846 6010D |

(a) Sample dilution required due to difficult matrix.



Sample Results

---

Report of Analysis

---

**Report of Analysis**

3.1  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-1 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-1                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 80.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12823.D | 1  | 05/24/19 17:28 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.08 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.32 | 0.077 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.3  | 0.63  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.32 | 0.063 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.95 | 0.13  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.32 | 0.13  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.1  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-1 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-1                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 80.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04577.D | 1  | 05/29/19 12:53 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.21 | 0.021 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.21 | 0.023 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.21 | 0.027 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.21 | 0.021 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.21 | 0.026 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 58%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 64%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 74%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-1 (10')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-1                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 80.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 8.8     | 2.7   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | 61.5    | 54    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 1.1   | 1.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 32.7    | 2.7   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 7.6     | 5.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | < 0.047 | 0.047 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 5.4   | 5.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 2.7   | 2.7   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

(1) Instrument QC Batch: MA15896

(2) Instrument QC Batch: MA15901

(3) Prep QC Batch: MP35566

(4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-2 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-2                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 90.3    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12824.D | 1  | 05/24/19 17:53 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.56 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.28 | 0.067 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.1  | 0.55  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.28 | 0.055 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.83 | 0.12  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.28 | 0.11  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-2 (10')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-2                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 90.3    |
| <b>Method:</b> SW846 8270D SW846 3550C                     |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04578.D | 1  | 05/29/19 13:19 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.18 | 0.018 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.18 | 0.020 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.18 | 0.024 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.18 | 0.019 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.18 | 0.023 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 61%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 65%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 74%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-2 (10')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-2                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 90.3    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte           | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic           | 5.1     | 4.4   | mg/kg | 10 | 05/28/19 | 06/04/19 LM | SW846 6010D <sup>3</sup> | SW846 3050B <sup>5</sup> |
| Barium            | 249     | 87    | mg/kg | 10 | 05/28/19 | 06/04/19 LM | SW846 6010D <sup>3</sup> | SW846 3050B <sup>5</sup> |
| Cadmium           | < 1.7   | 1.7   | mg/kg | 10 | 05/28/19 | 06/04/19 LM | SW846 6010D <sup>3</sup> | SW846 3050B <sup>5</sup> |
| Chromium          | 26.6    | 4.4   | mg/kg | 10 | 05/28/19 | 06/04/19 LM | SW846 6010D <sup>3</sup> | SW846 3050B <sup>5</sup> |
| Lead <sup>a</sup> | 14.3    | 4.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>5</sup> |
| Mercury           | < 0.044 | 0.044 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>4</sup> |
| Selenium          | < 8.7   | 8.7   | mg/kg | 10 | 05/28/19 | 06/04/19 LM | SW846 6010D <sup>3</sup> | SW846 3050B <sup>5</sup> |
| Silver            | < 4.4   | 4.4   | mg/kg | 10 | 05/28/19 | 06/04/19 LM | SW846 6010D <sup>3</sup> | SW846 3050B <sup>5</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Instrument QC Batch: MA15918
- (4) Prep QC Batch: MP35566
- (5) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit



### Report of Analysis

3.3  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-3 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-3                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 83.4    |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12825.D | 1  | 05/24/19 18:17 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.98 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.30 | 0.073 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.2  | 0.60  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.30 | 0.060 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.90 | 0.13  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.30 | 0.12  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



### Report of Analysis

3.3  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-3 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-3                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 83.4    |
| <b>Method:</b> SW846 8270D SW846 3550C                     |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04585.D | 1  | 05/29/19 16:25 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.20 | 0.020 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.20 | 0.022 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.20 | 0.026 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.20 | 0.020 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.20 | 0.025 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 62%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 65%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 76%    |        | 45-119% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

3.3  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-3 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-3                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 83.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 4.4     | 2.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | 115     | 49    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 0.97  | 0.97  | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 30.4    | 2.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 11.3    | 4.9   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | < 0.047 | 0.047 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 4.9   | 4.9   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 2.4   | 2.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Prep QC Batch: MP35566
- (4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit



### Report of Analysis

3.4  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-4 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-4                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 78.0    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12826.D | 1  | 05/24/19 18:42 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.17 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.33 | 0.081 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.3  | 0.66  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.33 | 0.066 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.99 | 0.14  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.33 | 0.13  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.4  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-4 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-4                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 78.0    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04586.D | 1  | 05/29/19 16:52 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.21 | 0.021 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.21 | 0.023 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.21 | 0.028 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.21 | 0.022 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.21 | 0.026 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 59%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 67%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 58%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.4  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-4 (10')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-4                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 78.0    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|--------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 6.7    | 2.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | 102    | 56    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 1.1  | 1.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 34.8   | 2.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 68.1   | 5.6   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | 0.052  | 0.045 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 5.6  | 5.6   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 2.8  | 2.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Prep QC Batch: MP35566
- (4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit

### Report of Analysis

3.5  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-5 (5')                   |                                |
| <b>Lab Sample ID:</b> FA64469-5                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 79.2    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12827.D | 1  | 05/24/19 19:06 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.34 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.36 | 0.088 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.4  | 0.72  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.36 | 0.072 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 1.1  | 0.15  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.36 | 0.14  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.5  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-5 (5')                   |                                |
| <b>Lab Sample ID:</b> FA64469-5                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 79.2    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04587.D | 1  | 05/29/19 17:19 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.21 | 0.021 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.21 | 0.023 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.21 | 0.027 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.21 | 0.021 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.21 | 0.026 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 63%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 70%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 86%    |        | 45-119% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-5 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-5                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 79.2    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 4.8     | 3.0   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | < 61    | 61    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 1.2   | 1.2   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 26.6    | 3.0   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 6.3     | 6.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | < 0.042 | 0.042 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 6.1   | 6.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 3.0   | 3.0   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Prep QC Batch: MP35566
- (4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit



### Report of Analysis

3.6  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-6 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-6                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 97.2    |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12828.D | 1  | 05/24/19 19:30 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.57 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.24 | 0.058 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 0.95 | 0.48  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.24 | 0.048 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.71 | 0.10  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.24 | 0.095 | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 87%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-6 (5')                   |                                |
| <b>Lab Sample ID:</b> FA64469-6                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 97.2    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04588.D | 1  | 05/29/19 17:46 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.17 | 0.017 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.17 | 0.019 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.17 | 0.022 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.17 | 0.017 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.17 | 0.021 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 63%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 74%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 84%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-6 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-6                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 97.2    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|--------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 4.7    | 2.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | 47.3   | 41    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 0.82 | 0.82  | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 25.5   | 2.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 11.7   | 4.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | 0.041  | 0.036 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 4.1  | 4.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 2.1  | 2.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Prep QC Batch: MP35566
- (4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit

**Report of Analysis**

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-7 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-7                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 89.7    |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12829.D | 1  | 05/24/19 19:55 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.47 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.28 | 0.069 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.1  | 0.57  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.28 | 0.057 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.85 | 0.12  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.28 | 0.11  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 88%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-7 (5')                   |                                |
| <b>Lab Sample ID:</b> FA64469-7                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 89.7    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04589.D | 1  | 05/29/19 18:13 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.19 | 0.019 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.19 | 0.020 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.19 | 0.024 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.19 | 0.019 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.19 | 0.023 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 59%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 68%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 77%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-7 (5')                   | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-7                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 89.7    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 5.9     | 2.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | 102     | 48    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 0.96  | 0.96  | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 27.5    | 2.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 12.0    | 4.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | < 0.046 | 0.046 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 4.8   | 4.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 2.4   | 2.4   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Prep QC Batch: MP35566
- (4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

RL = Reporting Limit



### Report of Analysis

3.8  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-8 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-8                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 85.3    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12830.D | 1  | 05/24/19 20:20 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.71 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.30 | 0.073 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.2  | 0.60  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.30 | 0.060 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.90 | 0.13  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.30 | 0.12  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 84%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 77%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-8 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-8                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 85.3    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04590.D | 1  | 05/29/19 18:40 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.19 | 0.019 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.19 | 0.021 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.19 | 0.025 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.19 | 0.020 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.19 | 0.024 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 63%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 68%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 83%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-8 (10')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-8                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 85.3    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 3.9     | 2.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Barium <sup>a</sup>   | 106     | 57    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Cadmium <sup>a</sup>  | < 1.1   | 1.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Chromium <sup>a</sup> | 33.5    | 2.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Lead <sup>a</sup>     | 6.2     | 5.7   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Mercury               | < 0.042 | 0.042 | mg/kg | 1  | 05/28/19 | 05/28/19 JC | SW846 7471B <sup>1</sup> | SW846 7471B <sup>3</sup> |
| Selenium <sup>a</sup> | < 5.7   | 5.7   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |
| Silver <sup>a</sup>   | < 2.8   | 2.8   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>2</sup> | SW846 3050B <sup>4</sup> |

- (1) Instrument QC Batch: MA15896
- (2) Instrument QC Batch: MA15901
- (3) Prep QC Batch: MP35566
- (4) Prep QC Batch: MP35578

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit

### Report of Analysis

3.9  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-9 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-9                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 85.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12831.D | 1  | 05/24/19 20:45 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.57 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.31 | 0.075 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.2  | 0.61  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.31 | 0.061 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 0.92 | 0.13  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.31 | 0.12  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.9  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-9 (10')                  |                                |
| <b>Lab Sample ID:</b> FA64469-9                            | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 85.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04591.D | 1  | 05/29/19 19:07 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.19 | 0.019 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.19 | 0.021 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.19 | 0.025 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.19 | 0.020 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.19 | 0.024 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 61%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 66%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 81%    |        | 45-119% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.9  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-9 (10')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-9                            | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 85.4    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 7.2     | 2.3   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Barium <sup>a</sup>   | 98.5    | 45    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Cadmium <sup>a</sup>  | < 0.90  | 0.90  | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Chromium <sup>a</sup> | 26.8    | 2.3   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Lead <sup>a</sup>     | 12.6    | 4.5   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Mercury               | < 0.042 | 0.042 | mg/kg | 1  | 05/31/19 | 05/31/19 JC | SW846 7471B <sup>2</sup> | SW846 7471B <sup>4</sup> |
| Selenium <sup>a</sup> | < 4.5   | 4.5   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Silver <sup>a</sup>   | < 2.3   | 2.3   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |

- (1) Instrument QC Batch: MA15901
- (2) Instrument QC Batch: MA15907
- (3) Prep QC Batch: MP35578
- (4) Prep QC Batch: MP35589

(a) Sample dilution required due to difficult matrix.

---

RL = Reporting Limit



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-10 (5')                  |                                |
| <b>Lab Sample ID:</b> FA64469-10                           | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> 74.7    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2B12832.D | 1  | 05/24/19 21:10 | SP | n/a       | n/a        | V2B485           |
| Run #2              |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.72 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**Purgeable Aromatics, Naphthalene**

| CAS No.   | Compound       | Result | RL   | MDL   | Units | Q |
|-----------|----------------|--------|------|-------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.38 | 0.092 | mg/kg |   |
| 108-88-3  | Toluene        | ND     | 1.5  | 0.75  | mg/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.38 | 0.075 | mg/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 1.1  | 0.16  | mg/kg |   |
| 91-20-3   | Naphthalene    | ND     | 0.38 | 0.15  | mg/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 88%    |        | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound



### Report of Analysis

3.10  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-10 (5')                  |                                |
| <b>Lab Sample ID:</b> FA64469-10                           | <b>Date Sampled:</b> 05/22/19  |
| <b>Matrix:</b> SO - Soil                                   | <b>Date Received:</b> 05/24/19 |
| <b>Method:</b> SW846 8270D SW846 3550C                     | <b>Percent Solids:</b> 74.7    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6F04592.D | 1  | 05/29/19 19:34 | MV | 05/28/19 08:45 | OP75224    | S6F171           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.0 g         | 1.0 ml       |
| Run #2 |                |              |

**PAH Special List**

| CAS No.  | Compound               | Result | RL   | MDL   | Units | Q |
|----------|------------------------|--------|------|-------|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 0.22 | 0.022 | mg/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 0.22 | 0.024 | mg/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 0.22 | 0.029 | mg/kg |   |
| 218-01-9 | Chrysene               | ND     | 0.22 | 0.023 | mg/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 0.22 | 0.028 | mg/kg |   |

| CAS No.   | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5      | 57%    |        | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 61%    |        | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 77%    |        | 45-119% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 SB-10 (5')                  | <b>Date Sampled:</b> 05/22/19  |
| <b>Lab Sample ID:</b> FA64469-10                           | <b>Date Received:</b> 05/24/19 |
| <b>Matrix:</b> SO - Soil                                   | <b>Percent Solids:</b> 74.7    |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

**Metals Analysis**

| Analyte               | Result  | RL    | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|-----------------------|---------|-------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic <sup>a</sup>  | 7.0     | 2.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Barium <sup>a</sup>   | 61.8    | 43    | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Cadmium <sup>a</sup>  | < 0.86  | 0.86  | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Chromium <sup>a</sup> | 38.4    | 2.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Lead <sup>a</sup>     | 11.6    | 4.3   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Mercury               | < 0.051 | 0.051 | mg/kg | 1  | 05/31/19 | 05/31/19 JC | SW846 7471B <sup>2</sup> | SW846 7471B <sup>4</sup> |
| Selenium <sup>a</sup> | < 4.3   | 4.3   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |
| Silver <sup>a</sup>   | < 2.1   | 2.1   | mg/kg | 5  | 05/28/19 | 05/29/19 LM | SW846 6010D <sup>1</sup> | SW846 3050B <sup>3</sup> |

- (1) Instrument QC Batch: MA15901
- (2) Instrument QC Batch: MA15907
- (3) Prep QC Batch: MP35578
- (4) Prep QC Batch: MP35589

(a) Sample dilution required due to difficult matrix.

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RL = Reporting Limit

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody





### SGS Sample Receipt Summary

Job Number: FA64469

Client: GEOLOGICAL RESOURCES INC.

Project: 378 TRUCK STOP

Date / Time Received: 5/24/2019 8:40:00 AM

Delivery Method: FX

Airbill #'s: 812575722365

|   |                       |                        |
|---|-----------------------|------------------------|
| Therm ID: <u>IR 1;</u>                                  | Therm CF: <u>0.4;</u> | # of Coolers: <u>1</u> |
| Cooler Temps (Raw Measured) °C: Cooler 1: <u>(2.2);</u> |                       |                        |
| Cooler Temps (Corrected) °C: Cooler 1: <u>(2.6);</u>    |                       |                        |

| <u>Cooler Information</u>      | <u>Y</u>                            | <u>or</u> | <u>N</u>                            | <u>Sample Information</u>                           | <u>Y</u>                            | <u>or</u> | <u>N</u>                            | <u>N/A</u>                          |
|--------------------------------|-------------------------------------|-----------|-------------------------------------|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Custody Seals Present       | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            | 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            |                                     |
| 2. Custody Seals Intact        | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            | 2. Samples preserved properly                       | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            |                                     |
| 3. Temp criteria achieved      | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            | 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            |                                     |
| 4. Cooler temp verification    | <u>IR Gun</u>                       |           |                                     | 4. Condition of sample                              | <u>Intact</u>                       |           |                                     |                                     |
| 5. Cooler media                | <u>Ice (Bag)</u>                    |           |                                     | 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            |                                     |
| <u>Trip Blank Information</u>  |                                     |           |                                     | 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> |           | <input type="checkbox"/>            |                                     |
| 1. Trip Blank present / cooler | <input type="checkbox"/>            |           | <input checked="" type="checkbox"/> | 7. VOCs have headspace                              | <input type="checkbox"/>            |           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/>            |           | <input checked="" type="checkbox"/> | 8. Bottles received for unspecified tests           | <input type="checkbox"/>            |           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | <u>W or S</u>                       |           |                                     | 9. Compositing instructions clear                   | <input type="checkbox"/>            |           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Type Of TB Received         | <input type="checkbox"/>            |           | <input type="checkbox"/>            | 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            |           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                                | <u>N/A</u>                          |           |                                     | 11. % Solids Jar received?                          | <input type="checkbox"/>            |           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                                | <input type="checkbox"/>            |           | <input type="checkbox"/>            | 12. Residual Chlorine Present?                      | <input type="checkbox"/>            |           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

| <u>Misc. Information</u>                  |                         |                                      |                                      |
|---|-------------------------|--------------------------------------|--------------------------------------|
| Number of Encores: 25-Gram _____          | 5-Gram _____            | Number of 5035 Field Kits: <u>10</u> | Number of Lab Filtered Metals: _____ |
| Test Strip Lot #s: pH 0-3 <u>230315</u>   | pH 10-12 <u>219813A</u> | Other: (Specify) _____               |                                      |
| Residual Chlorine Test Strip Lot #: _____ |                         |                                      |                                      |

Comments

SM001 Rev. Date 05/24/17 Technician: BRANDYK Date: 5/24/2019 8:40:00 AM Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

FA64469: Chain of Custody  
Page 2 of 2

4.1  
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**MS Volatiles**

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5

**QC Data Summaries**

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** FA64469  
**Account:** GRINCC GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V2B485-MB | 2B12822.D | 1  | 05/24/19 | SP | n/a       | n/a        | V2B485           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

| CAS No.   | Compound       | Result | RL  | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2   | Benzene        | ND     | 5.0 | 1.2 | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 91-20-3   | Naphthalene    | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 20  | 10  | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 81%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%    | 71-133% |

# Blank Spike Summary

Job Number: FA64469  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V2B485-BS | 2B12821.D | 1  | 05/24/19 | SP | n/a       | n/a        | V2B485           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

| CAS No.   | Compound       | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|-----------|----------------|----------------|--------------|----------|--------|
| 71-43-2   | Benzene        | 50             | 54.7         | 109      | 76-126 |
| 100-41-4  | Ethylbenzene   | 50             | 56.5         | 113      | 77-123 |
| 91-20-3   | Naphthalene    | 50             | 62.5         | 125      | 79-129 |
| 108-88-3  | Toluene        | 50             | 50.0         | 100      | 76-124 |
| 1330-20-7 | Xylene (total) | 150            | 155          | 103      | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%  | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%  | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 84%  | 71-133% |

\* = Outside of Control Limits.

5.2.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64469  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| FA64469-1MS            | 2B12833.D | 1  | 05/24/19 | SP | n/a       | n/a        | V2B485           |
| FA64469-1MSD           | 2B12834.D | 1  | 05/24/19 | SP | n/a       | n/a        | V2B485           |
| FA64469-1 <sup>a</sup> | 2B12823.D | 1  | 05/24/19 | SP | n/a       | n/a        | V2B485           |

The QC reported here applies to the following samples:

Method: SW846 8260B

FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

| CAS No.   | Compound       | FA64469-1<br>ug/kg | Spike<br>Q | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------|--------------------|------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 71-43-2   | Benzene        | ND                 | 3170       | 3440        | 109     | 3170           | 3640         | 115      | 6   | 76-126/26         |
| 100-41-4  | Ethylbenzene   | ND                 | 3170       | 3190        | 101     | 3170           | 3310         | 105      | 4   | 77-123/31         |
| 91-20-3   | Naphthalene    | ND                 | 3170       | 3300        | 104     | 3170           | 3510         | 111      | 6   | 79-129/33         |
| 108-88-3  | Toluene        | ND                 | 3170       | 3350        | 106     | 3170           | 3540         | 112      | 6   | 76-124/30         |
| 1330-20-7 | Xylene (total) | ND                 | 9500       | 9720        | 102     | 9500           | 10100        | 106      | 4   | 80-129/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA64469-1 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 102% | 103%      | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 83%  | 83%  | 87%       | 72-135% |
| 2037-26-5  | Toluene-D8            | 102% | 105% | 102%      | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 93%  | 93%  | 90%       | 71-133% |

(a) Dilution required due to matrix interference (sample foamed).

\* = Outside of Control Limits.

5.3.1  
5

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**MS Semi-volatiles**

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**6****QC Data Summaries**

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

Job Number: FA64469  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP75224-MB | 6F04572.D | 1  | 05/29/19 | MV | 05/28/19  | OP75224    | S6F171           |

The QC reported here applies to the following samples:

Method: SW846 8270D

FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

6.1.1  
6

| CAS No.  | Compound               | Result | RL  | MDL | Units | Q |
|----------|------------------------|--------|-----|-----|-------|---|
| 56-55-3  | Benzo(a)anthracene     | ND     | 170 | 17  | ug/kg |   |
| 205-99-2 | Benzo(b)fluoranthene   | ND     | 170 | 18  | ug/kg |   |
| 207-08-9 | Benzo(k)fluoranthene   | ND     | 170 | 22  | ug/kg |   |
| 218-01-9 | Chrysene               | ND     | 170 | 17  | ug/kg |   |
| 53-70-3  | Dibenzo(a,h)anthracene | ND     | 170 | 21  | ug/kg |   |

| CAS No.   | Surrogate Recoveries | Results | Limits  |
|-----------|----------------------|---------|---------|
| 367-12-4  | 2-Fluorophenol       | 65%     | 40-102% |
| 4165-62-2 | Phenol-d5            | 66%     | 41-100% |
| 118-79-6  | 2,4,6-Tribromophenol | 74%     | 42-108% |
| 4165-60-0 | Nitrobenzene-d5      | 63%     | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 67%     | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 75%     | 45-119% |



# Blank Spike Summary

Job Number: FA64469  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP75224-BS | 6F04571.D | 1  | 05/29/19 | MV | 05/28/19  | OP75224    | S6F171           |

The QC reported here applies to the following samples:

Method: SW846 8270D

FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

| CAS No.  | Compound               | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|----------|------------------------|-------------|-----------|-------|--------|
| 56-55-3  | Benzo(a)anthracene     | 1670        | 1350      | 81    | 66-111 |
| 205-99-2 | Benzo(b)fluoranthene   | 1670        | 1300      | 78    | 67-113 |
| 207-08-9 | Benzo(k)fluoranthene   | 1670        | 1350      | 81    | 67-114 |
| 218-01-9 | Chrysene               | 1670        | 1330      | 80    | 65-112 |
| 53-70-3  | Dibenzo(a,h)anthracene | 1670        | 1230      | 74    | 68-115 |

| CAS No.   | Surrogate Recoveries | BSP | Limits  |
|-----------|----------------------|-----|---------|
| 367-12-4  | 2-Fluorophenol       | 60% | 40-102% |
| 4165-62-2 | Phenol-d5            | 59% | 41-100% |
| 118-79-6  | 2,4,6-Tribromophenol | 73% | 42-108% |
| 4165-60-0 | Nitrobenzene-d5      | 61% | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 71% | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 70% | 45-119% |

\* = Outside of Control Limits.

6.2.1

6



# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64469  
 Account: GRINCC GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP75224-MS  | 6F04579.D | 1  | 05/29/19 | MV | 05/28/19  | OP75224    | S6F171           |
| OP75224-MSD | 6F04580.D | 1  | 05/29/19 | MV | 05/28/19  | OP75224    | S6F171           |
| FA64469-2   | 6F04578.D | 1  | 05/29/19 | MV | 05/28/19  | OP75224    | S6F171           |

The QC reported here applies to the following samples:

Method: SW846 8270D

FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

| CAS No.  | Compound               | FA64469-2<br>ug/kg | Spike<br>Q | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|----------|------------------------|--------------------|------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 56-55-3  | Benzo(a)anthracene     | ND                 | 1850       | 1470        | 80      | 1840           | 1480         | 80       | 1   | 66-111/23         |
| 205-99-2 | Benzo(b)fluoranthene   | ND                 | 1850       | 1470        | 80      | 1840           | 1400         | 76       | 5   | 67-113/24         |
| 207-08-9 | Benzo(k)fluoranthene   | ND                 | 1850       | 1410        | 76      | 1840           | 1430         | 78       | 1   | 67-114/22         |
| 218-01-9 | Chrysene               | ND                 | 1850       | 1500        | 81      | 1840           | 1470         | 80       | 2   | 65-112/25         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND                 | 1850       | 1340        | 73      | 1840           | 1320         | 72       | 2   | 68-115/23         |

| CAS No.   | Surrogate Recoveries | MS  | MSD | FA64469-2 | Limits  |
|-----------|----------------------|-----|-----|-----------|---------|
| 367-12-4  | 2-Fluorophenol       | 61% | 62% |           | 40-102% |
| 4165-62-2 | Phenol-d5            | 62% | 65% |           | 41-100% |
| 118-79-6  | 2,4,6-Tribromophenol | 75% | 74% |           | 42-108% |
| 4165-60-0 | Nitrobenzene-d5      | 61% | 61% | 61%       | 40-105% |
| 321-60-8  | 2-Fluorobiphenyl     | 65% | 67% | 65%       | 43-107% |
| 1718-51-0 | Terphenyl-d14        | 73% | 71% | 74%       | 45-119% |

\* = Outside of Control Limits.

6.3.1

6

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**Metals Analysis**

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**QC Data Summaries****7**

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35566  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 05/28/19

| Metal   | RL    | IDL   | MDL   | MB<br>raw | final  |
|---------|-------|-------|-------|-----------|--------|
| Mercury | 0.042 | .0025 | .0042 | -0.0079   | <0.042 |

Associated samples MP35566: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

7.1.1  
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35566  
 Matrix Type: SOLID

Methods: SW846 7471B  
 Units: mg/kg

Prep Date: 05/28/19 05/28/19

| Metal   | FA64430-2<br>Original | DUP | RPD | QC<br>Limits | FA64430-2<br>Original MS | Spikelot<br>HGFLWS1 | % Rec | QC<br>Limits |
|---------|-----------------------|-----|-----|--------------|--------------------------|---------------------|-------|--------------|
| Mercury | 0.0                   | 0.0 | NC  | 0-20         | 0.0                      | 0.23                | 97.5  | 80-120       |

Associated samples MP35566: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

7.1.2  
**7**

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35566  
 Matrix Type: SOLID

Methods: SW846 7471B  
 Units: mg/kg

Prep Date: 05/28/19

| Metal   | FA64430-2<br>Original MSD | Spikelot<br>HGFLWS1 | % Rec | MSD<br>RPD | QC<br>Limit |
|---------|---------------------------|---------------------|-------|------------|-------------|
| Mercury | 0.0                       | 0.22                | 0.229 | 96.0       | 4.4 20      |

Associated samples MP35566: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

7.1.2  
**7**

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35566  
 Matrix Type: SOLID

Methods: SW846 7471B  
 Units: mg/kg

Prep Date: 05/28/19

| Metal   | BSP<br>Result | Spikelot<br>HGFLWS1 | % Rec | QC<br>Limits |
|---------|---------------|---------------------|-------|--------------|
| Mercury | 0.25          | 0.25                | 100.0 | 80-120       |

Associated samples MP35566: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

7.1.3  
**7**



SERIAL DILUTION RESULTS SUMMARY

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35566  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: ug/l

Prep Date: 05/28/19

| Metal   | FA64430-2<br>Original SDL 1:5 | %DIF | QC<br>Limits |
|---------|-------------------------------|------|--------------|
| Mercury | 0.00                          | 0.00 | NC 0-10      |

Associated samples MP35566: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

7.1.4  
7



BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35578  
Matrix Type: SOLID

Methods: SW846 6010D  
Units: mg/kg

Prep Date: 05/28/19

| Metal      | RL   | IDL  | MDL  | MB<br>raw | final |
|------------|------|------|------|-----------|-------|
| Aluminum   | 10   | .7   | 1.8  |           |       |
| Antimony   | 1.0  | .05  | .065 |           |       |
| Arsenic    | 0.50 | .065 | .1   | -0.035    | <0.50 |
| Barium     | 10   | .05  | .05  | 0.0       | <10   |
| Beryllium  | 0.25 | .01  | .025 |           |       |
| Cadmium    | 0.20 | .01  | .025 | -0.0020   | <0.20 |
| Calcium    | 250  | 2.5  | 2.5  |           |       |
| Chromium   | 0.50 | .05  | .05  | 0.050     | <0.50 |
| Cobalt     | 2.5  | .01  | .025 |           |       |
| Copper     | 1.3  | .05  | .05  |           |       |
| Iron       | 15   | .85  | .85  |           |       |
| Lead       | 1.0  | .05  | .05  | 0.010     | <1.0  |
| Magnesium  | 250  | 1.8  | 1.8  |           |       |
| Manganese  | 0.75 | .025 | .025 |           |       |
| Molybdenum | 2.5  | .015 | .025 |           |       |
| Nickel     | 2.0  | .02  | .025 |           |       |
| Potassium  | 500  | 10   | 10   |           |       |
| Selenium   | 1.0  | .12  | .12  | -0.045    | <1.0  |
| Silver     | 0.50 | .035 | .041 | -0.0050   | <0.50 |
| Sodium     | 500  | 25   | 25   |           |       |
| Strontium  | 0.50 | .025 | .025 |           |       |
| Thallium   | 0.50 | .055 | .055 |           |       |
| Tin        | 2.5  | .045 | .045 |           |       |
| Titanium   | 0.50 | .025 | .025 |           |       |
| Vanadium   | 2.5  | .025 | .025 |           |       |
| Zinc       | 1.0  | .15  | .15  |           |       |

Associated samples MP35578: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

7.2.1  
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35578  
 Matrix Type: SOLID

Methods: SW846 6010D  
 Units: mg/kg

Prep Date: 05/28/19 05/28/19

| Metal      | FA64469-1<br>Original DUP |          | RPD      | QC<br>Limits | FA64469-1<br>Original MS |               | Spikelot<br>MPFLICP2 % Rec | QC<br>Limits |
|------------|---------------------------|----------|----------|--------------|--------------------------|---------------|----------------------------|--------------|
| Aluminum   |                           |          |          |              |                          |               |                            |              |
| Antimony   |                           |          |          |              |                          |               |                            |              |
| Arsenic    | 8.8                       | 7.1 (a)  | 21.4 (b) | 0-20         | 8.8                      | 97.1 (a) 114  | 77.4N(c)                   | 80-120       |
| Barium     | 61.5                      | 55.3 (a) | 10.6     | 0-20         | 61.5                     | 165 (a) 114   | 90.7                       | 80-120       |
| Beryllium  |                           |          |          |              |                          |               |                            |              |
| Cadmium    | 0.0                       | 0.0 (a)  | NC       | 0-20         | 0.0                      | 2.0 (a) 2.85  | 70.1N(c)                   | 80-120       |
| Calcium    |                           |          |          |              |                          |               |                            |              |
| Chromium   | 32.7                      | 27.8 (a) | 16.2     | 0-20         | 32.7                     | 40.8 (a) 11.4 | 71.0N(c)                   | 80-120       |
| Cobalt     |                           |          |          |              |                          |               |                            |              |
| Copper     |                           |          |          |              |                          |               |                            |              |
| Iron       |                           |          |          |              |                          |               |                            |              |
| Lead       | 7.6                       | 6.5 (a)  | 15.6     | 0-20         | 7.6                      | 34.0 (a) 28.5 | 92.5                       | 80-120       |
| Magnesium  |                           |          |          |              |                          |               |                            |              |
| Manganese  |                           |          |          |              |                          |               |                            |              |
| Molybdenum |                           |          |          |              |                          |               |                            |              |
| Nickel     |                           |          |          |              |                          |               |                            |              |
| Potassium  |                           |          |          |              |                          |               |                            |              |
| Selenium   | 0.0                       | 0.0 (a)  | NC       | 0-20         | 0.0                      | 90.7 (a) 114  | 79.5N(c)                   | 80-120       |
| Silver     | 0.0                       | 0.0 (a)  | NC       | 0-20         | 0.0                      | 2.2 (a) 2.85  | 77.1N(c)                   | 80-120       |
| Sodium     |                           |          |          |              |                          |               |                            |              |
| Strontium  |                           |          |          |              |                          |               |                            |              |
| Thallium   |                           |          |          |              |                          |               |                            |              |
| Tin        |                           |          |          |              |                          |               |                            |              |
| Titanium   |                           |          |          |              |                          |               |                            |              |
| Vanadium   |                           |          |          |              |                          |               |                            |              |
| Zinc       |                           |          |          |              |                          |               |                            |              |

Associated samples MP35578: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Sample dilution required due to difficult matrix.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

7.22  
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35578  
 Matrix Type: SOLID

Methods: SW846 6010D  
 Units: mg/kg

Prep Date: 05/28/19

| Metal      | FA64469-1<br>Original MSD | Spikelot<br>MPFLICP2 % Rec | MSD<br>RPD | QC<br>Limit |    |
|------------|---------------------------|----------------------------|------------|-------------|----|
| Aluminum   |                           |                            |            |             |    |
| Antimony   |                           |                            |            |             |    |
| Arsenic    | 8.8                       | 94.7 (a) 107               | 80.1       | 2.5         | 20 |
| Barium     | 61.5                      | 154 (a) 107                | 86.3       | 6.9         | 20 |
| Beryllium  |                           |                            |            |             |    |
| Cadmium    | 0.0                       | 1.8 (a) 2.68               | 67.2N(b)   | 10.5        | 20 |
| Calcium    |                           |                            |            |             |    |
| Chromium   | 32.7                      | 41.7 (a) 10.7              | 83.9       | 2.2         | 20 |
| Cobalt     |                           |                            |            |             |    |
| Copper     |                           |                            |            |             |    |
| Iron       |                           |                            |            |             |    |
| Lead       | 7.6                       | 32.3 (a) 26.8              | 92.1       | 5.1         | 20 |
| Magnesium  |                           |                            |            |             |    |
| Manganese  |                           |                            |            |             |    |
| Molybdenum |                           |                            |            |             |    |
| Nickel     |                           |                            |            |             |    |
| Potassium  |                           |                            |            |             |    |
| Selenium   | 0.0                       | 86.0 (a) 107               | 80.2       | 5.3         | 20 |
| Silver     | 0.0                       | 2.0 (a) 2.68               | 74.6N(b)   | 9.5         | 20 |
| Sodium     |                           |                            |            |             |    |
| Strontium  |                           |                            |            |             |    |
| Thallium   |                           |                            |            |             |    |
| Tin        |                           |                            |            |             |    |
| Titanium   |                           |                            |            |             |    |
| Vanadium   |                           |                            |            |             |    |
| Zinc       |                           |                            |            |             |    |

Associated samples MP35578: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested  
 (a) Sample dilution required due to difficult matrix.  
 (b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

7.2.2  
7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35578  
 Matrix Type: SOLID

Methods: SW846 6010D  
 Units: mg/kg

Prep Date: 05/28/19

| Metal      | BSP Result | Spikelot MPFLICP2 & Rec | QC Limits    |
|------------|------------|-------------------------|--------------|
| Aluminum   |            |                         |              |
| Antimony   |            |                         |              |
| Arsenic    | 93.2       | 100                     | 93.2 80-120  |
| Barium     | 97.7       | 100                     | 97.7 80-120  |
| Beryllium  |            |                         |              |
| Cadmium    | 2.5        | 2.5                     | 100.0 80-120 |
| Calcium    |            |                         |              |
| Chromium   | 10.3       | 10                      | 103.0 80-120 |
| Cobalt     |            |                         |              |
| Copper     |            |                         |              |
| Iron       |            |                         |              |
| Lead       | 22.7       | 25                      | 90.8 80-120  |
| Magnesium  |            |                         |              |
| Manganese  |            |                         |              |
| Molybdenum |            |                         |              |
| Nickel     |            |                         |              |
| Potassium  |            |                         |              |
| Selenium   | 92.7       | 100                     | 92.7 80-120  |
| Silver     | 2.3        | 2.5                     | 92.0 80-120  |
| Sodium     |            |                         |              |
| Strontium  |            |                         |              |
| Thallium   |            |                         |              |
| Tin        |            |                         |              |
| Titanium   |            |                         |              |
| Vanadium   |            |                         |              |
| Zinc       |            |                         |              |

Associated samples MP35578: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

7.2.3  
**7**

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35578  
 Matrix Type: SOLID

Methods: SW846 6010D  
 Units: ug/l

Prep Date: 05/28/19

| Metal | FA64469-1 | QC     |
|-------|-----------|--------|
|       | Original  | Limits |
|       | SDL       | %DIF   |

|            |      |      |           |      |
|------------|------|------|-----------|------|
| Aluminum   |      |      |           |      |
| Antimony   |      |      |           |      |
| Arsenic    | 163  | 185  | 13.8 (a)  | 0-10 |
| Barium     | 1140 | 1250 | 10.1* (b) | 0-10 |
| Beryllium  |      |      |           |      |
| Cadmium    | 0.00 | 0.00 | NC        | 0-10 |
| Calcium    |      |      |           |      |
| Chromium   | 605  | 654  | 8.0       | 0-10 |
| Cobalt     |      |      |           |      |
| Copper     |      |      |           |      |
| Iron       |      |      |           |      |
| Lead       | 140  | 108  | 22.8 (a)  | 0-10 |
| Magnesium  |      |      |           |      |
| Manganese  |      |      |           |      |
| Molybdenum |      |      |           |      |
| Nickel     |      |      |           |      |
| Potassium  |      |      |           |      |
| Selenium   | 0.00 | 0.00 | NC        | 0-10 |
| Silver     | 0.00 | 0.00 | NC        | 0-10 |
| Sodium     |      |      |           |      |
| Strontium  |      |      |           |      |
| Thallium   |      |      |           |      |
| Tin        |      |      |           |      |
| Titanium   |      |      |           |      |
| Vanadium   |      |      |           |      |
| Zinc       |      |      |           |      |

Associated samples MP35578: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested  
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).  
 (b) Serial dilution indicates possible matrix interference.

7.24  
7

POST DIGESTATE SPIKE SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35578  
 Matrix Type: SOLID

Methods: SW846 6010D  
 Units: ug/l

Prep Date:

05/28/19

| Metal      | Sample ml | Final ml | FA64469-1 Raw | PS Corr.** | PS ug/l | Spike ml | Spike ug/ml | Spike ug/l | % Rec     | QC Limits |
|------------|-----------|----------|---------------|------------|---------|----------|-------------|------------|-----------|-----------|
| Aluminum   |           |          |               |            |         |          |             |            |           |           |
| Antimony   |           |          |               |            |         |          |             |            |           |           |
| Arsenic    | 9.8       | 10       | 162.6         | 159.348    | 255.6   | 0.2      | 5           | 100        | 96.3      | 80-120    |
| Barium     | 9.8       | 10       | 1138          | 1115.24    | 1377    | 0.2      | 12.5        | 250        | 104.7     | 80-120    |
| Beryllium  |           |          |               |            |         |          |             |            |           |           |
| Cadmium    | 9.8       | 10       |               |            | 30.66   | 0.2      | 2.5         | 50         | 61.3*(a)  | 80-120    |
| Calcium    |           |          |               |            |         |          |             |            |           |           |
| Chromium   | 9.8       | 10       | 605.3         | 593.194    | 659.9   | 0.2      | 2.5         | 50         | 133.4*(a) | 80-120    |
| Cobalt     |           |          |               |            |         |          |             |            |           |           |
| Copper     |           |          |               |            |         |          |             |            |           |           |
| Iron       |           |          |               |            |         |          |             |            |           |           |
| Lead       | 9.8       | 10       | 139.7         | 136.906    | 179.8   | 0.2      | 2.5         | 50         | 85.8      | 80-120    |
| Magnesium  |           |          |               |            |         |          |             |            |           |           |
| Manganese  |           |          |               |            |         |          |             |            |           |           |
| Molybdenum |           |          |               |            |         |          |             |            |           |           |
| Nickel     |           |          |               |            |         |          |             |            |           |           |
| Potassium  |           |          |               |            |         |          |             |            |           |           |
| Selenium   | 9.8       | 10       |               |            | 72.4    | 0.2      | 5           | 100        | 72.4*(a)  | 80-120    |
| Silver     | 9.8       | 10       |               |            | 37      | 0.2      | 2.5         | 50         | 74.0*(a)  | 80-120    |
| Sodium     |           |          |               |            |         |          |             |            |           |           |
| Strontium  |           |          |               |            |         |          |             |            |           |           |
| Thallium   |           |          |               |            |         |          |             |            |           |           |
| Tin        |           |          |               |            |         |          |             |            |           |           |
| Titanium   |           |          |               |            |         |          |             |            |           |           |
| Vanadium   |           |          |               |            |         |          |             |            |           |           |
| Zinc       |           |          |               |            |         |          |             |            |           |           |

Associated samples MP35578: FA64469-1, FA64469-2, FA64469-3, FA64469-4, FA64469-5, FA64469-6, FA64469-7, FA64469-8, FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(\*\*) Corr. sample result = Raw \* (sample volume / final volume)

(anr) Analyte not requested

(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

7.2.5  
7

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35589  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 05/31/19

| Metal   | RL    | IDL   | MDL   | MB<br>raw | final  |
|---------|-------|-------|-------|-----------|--------|
| Mercury | 0.042 | .0025 | .0042 | -0.0011   | <0.042 |

Associated samples MP35589: FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits  
(anr) Analyte not requested

7.3.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
 Account: GRINCC - GRI (Geological Resources Inc.)  
 Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35589  
 Matrix Type: SOLID

Methods: SW846 7471B  
 Units: mg/kg

Prep Date: 05/31/19 05/31/19

| Metal   | FA64439-1 |      |          | FA64439-1 |       |      |           |
|---------|-----------|------|----------|-----------|-------|------|-----------|
|         | Original  | DUP  | RPD      | Original  | DUP   | RPD  | QC Limits |
| Mercury | 0.083     | 0.13 | 44.1*(a) | 0.083     | 0.070 | 17.0 | 0-20      |

Associated samples MP35589: FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested  
 (a) High RPD due to possible sample non-homogeneity.

7.3.2  
 7



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35589  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 05/31/19

| Metal   | FA64439-1<br>Original MS | Spikelot<br>HGFLWS1 | % Rec | QC<br>Limits |
|---------|--------------------------|---------------------|-------|--------------|
| Mercury | 0.083                    | 0.28                | 0.224 | 88.D 80-120  |

Associated samples MP35589: FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested

7.3.2  
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35589  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 05/31/19

| Metal   | FA64439-1<br>Original MSD | Spikelot<br>HGFLWS1 | % Rec | MSD<br>RPD | QC<br>Limit |
|---------|---------------------------|---------------------|-------|------------|-------------|
| Mercury | 0.083                     | 0.29                | 0.238 | 86.9       | 3.5 20      |

Associated samples MP35589: FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested

7.3.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35589  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: mg/kg

Prep Date: 05/31/19

| Metal   | BSP<br>Result | Spikelot<br>HGFLWS1 | % Rec | QC<br>Limits |
|---------|---------------|---------------------|-------|--------------|
| Mercury | 0.24          | 0.25                | 96.0  | 80-120       |

Associated samples MP35589: FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

7.3.3  
7

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA64469  
Account: GRINCC - GRI (Geological Resources Inc.)  
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

QC Batch ID: MP35589  
Matrix Type: SOLID

Methods: SW846 7471B  
Units: ug/l

Prep Date: 05/31/19

| Metal   | FA64439-1<br>Original SDL 1:5 | %DIF  | QC<br>Limits  |
|---------|-------------------------------|-------|---------------|
| Mercury | 1.04                          | 0.504 | 51.8 (a) 0-10 |

Associated samples MP35589: FA64469-9, FA64469-10

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

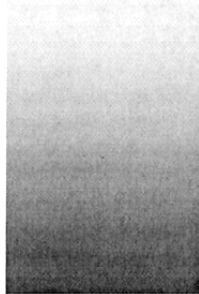
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.3.4

7

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
Automated Report



## Technical Report for

GRI (Geological Resources Inc.)

378 Truck Stop; 731 Hwy 378, Edgefield, SC

07960/4422

SGS Job Number: FA65220

Sampling Dates: 06/12/19 - 06/13/19

Report to:

GRI

wsb@geologicalresourcesinc.com

ATTN: Scott Ball

Total number of pages in report: 122



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

*Caitlin Brice*  
Caitlin Brice, M.S.  
General Manager

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.





July 24, 2019

Mr. Scott Ball  
GRI  
3502 Hayes Rd  
Monroe, NC 28110

RE: SGS North America Inc. - Orlando job FA65220 Reissue

Dear Mr. Ball,

The final report for job number FA65220 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

The sample ID has been revised for sample 25.

SGS North America Inc. - Orlando apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America, Inc. - Orlando

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### Sample Summary

GRI (Geological Resources Inc.)

Job No: FA65220

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
 Project No: 07960/4422

| Sample Number | Collected |            | Received | Matrix |                   | Client Sample ID |
|---------------|-----------|------------|----------|--------|-------------------|------------------|
|               | Date      | Time By    |          | Code   | Type              |                  |
| FA65220-1     | 06/12/19  | 12:15 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-1       |
| FA65220-2     | 06/12/19  | 13:03 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-2       |
| FA65220-3     | 06/12/19  | 15:52 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-3       |
| FA65220-4     | 06/12/19  | 09:30 ALJA | 06/15/19 | AQ     | Field Blank Water | 07960 FB         |
| FA65220-5     | 06/12/19  | 09:00 ALJA | 06/15/19 | AQ     | Trip Blank Water  | 07960-TB         |
| FA65220-6     | 06/13/19  | 11:53 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-4       |
| FA65220-7     | 06/13/19  | 07:33 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-5       |
| FA65220-8     | 06/13/19  | 08:43 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-7       |
| FA65220-9     | 06/13/19  | 09:21 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-8       |
| FA65220-10    | 06/13/19  | 10:02 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-10      |
| FA65220-11    | 06/13/19  | 10:42 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 TW-11      |
| FA65220-12    | 06/13/19  | 19:36 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 MW-1       |
| FA65220-13    | 06/13/19  | 19:45 ALJA | 06/15/19 | AQ     | Ground Water      | 07960 MW-2       |

SGS North America Inc.

### Sample Summary (continued)

GRI (Geological Resources Inc.)

Job No: FA65220

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
Project No: 07960/4422

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type            | Client Sample ID |
|---------------|----------------|---------|----------|-------------|-----------------|------------------|
| FA65220-14    | 06/13/19       | 19:00   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-4       |
| FA65220-15    | 06/13/19       | 10:15   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-6       |
| FA65220-16    | 06/13/19       | 11:20   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-8       |
| FA65220-17    | 06/13/19       | 15:10   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-11      |
| FA65220-18    | 06/13/19       | 16:35   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-12      |
| FA65220-19    | 06/13/19       | 18:10   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-13      |
| FA65220-20    | 06/13/19       | 09:25   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-20      |
| FA65220-21    | 06/13/19       | 10:50   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-21      |
| FA65220-22    | 06/13/19       | 17:15   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-22      |
| FA65220-23    | 06/13/19       | 12:00   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-27      |
| FA65220-24    | 06/13/19       | 20:08   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-3       |
| FA65220-25    | 06/13/19       | 08:45   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-5       |
| FA65220-26    | 06/13/19       | 20:35   | ALJA     | 06/15/19    | AQ Ground Water | 07960 MW-7       |



### Sample Summary

(continued)

GRI (Geological Resources Inc.)

Job No: FA65220

378 Truck Stop; 731 Hwy 378, Edgefield, SC  
 Project No: 07960/4422

| Sample Number | Collected |            | Matrix Received | Code | Type         | Client Sample ID |
|---------------|-----------|------------|-----------------|------|--------------|------------------|
|               | Date      | Time By    |                 |      |              |                  |
| FA65220-27    | 06/13/19  | 15:34 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-9       |
| FA65220-28    | 06/13/19  | 14:53 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-10      |
| FA65220-29    | 06/13/19  | 16:21 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-17      |
| FA65220-30    | 06/13/19  | 17:43 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-19      |
| FA65220-31    | 06/13/19  | 16:21 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-23      |
| FA65220-32    | 06/13/19  | 17:04 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-25      |
| FA65220-33    | 06/13/19  | 07:55 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-28      |
| FA65220-34    | 06/13/19  | 20:50 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-29      |
| FA65220-35    | 06/13/19  | 15:50 ALJA | 06/15/19        | AQ   | Ground Water | 07960 MW-30      |
| FA65220-36    | 06/13/19  | 20:30 ALJA | 06/15/19        | AQ   | Ground Water | 07960 DUP A      |
| FA65220-37    | 06/13/19  | 21:05 ALJA | 06/15/19        | AQ   | Ground Water | 07960 DUP B      |
| FA65220-38    | 06/13/19  | 21:00 ALJA | 06/15/19        | AQ   | Ground Water | 07960 DUP C      |

# Summary of Hits

**Job Number:** FA65220  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 06/12/19 thru 06/13/19

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA65220-1      07960 TW-1**

|                         |  |        |     |      |      |             |
|-------------------------|--|--------|-----|------|------|-------------|
| Benzene                 |  | 10     | 1.0 | 0.31 | ug/l | SW846 8260B |
| Toluene                 |  | 0.37 J | 1.0 | 0.30 | ug/l | SW846 8260B |
| Ethylbenzene            |  | 2.4    | 1.0 | 0.36 | ug/l | SW846 8260B |
| Xylene (total)          |  | 3.2    | 3.0 | 0.72 | ug/l | SW846 8260B |
| Methyl Tert Butyl Ether |  | 5.5    | 1.0 | 0.23 | ug/l | SW846 8260B |
| 1,2-Dichloroethane      |  | 48.2   | 1.0 | 0.31 | ug/l | SW846 8260B |
| Di-Isopropyl Ether      |  | 1.5    | 1.0 | 0.24 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol       |  | 1180 E | 20  | 5.3  | ug/l | SW846 8260B |
| Tert-Butyl Alcohol      |  | 77.6   | 20  | 5.3  | ug/l | SW846 8260B |

**FA65220-2      07960 TW-2**

|                         |  |        |     |      |      |             |
|-------------------------|--|--------|-----|------|------|-------------|
| Methyl Tert Butyl Ether |  | 0.94 J | 1.0 | 0.23 | ug/l | SW846 8260B |
| 1,2-Dichloroethane      |  | 12.3   | 1.0 | 0.31 | ug/l | SW846 8260B |
| Di-Isopropyl Ether      |  | 1.1    | 1.0 | 0.24 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol       |  | 735    | 20  | 5.3  | ug/l | SW846 8260B |
| Tert-Butyl Alcohol      |  | 41.5   | 20  | 5.3  | ug/l | SW846 8260B |

**FA65220-3      07960 TW-3**

No hits reported in this sample.

**FA65220-4      07960 FB**

No hits reported in this sample.

**FA65220-5      07960-TB**

No hits reported in this sample.

**FA65220-6      07960 TW-4**

No hits reported in this sample.

**FA65220-7      07960 TW-5**

|         |  |        |     |      |      |             |
|---------|--|--------|-----|------|------|-------------|
| Toluene |  | 0.60 J | 1.0 | 0.30 | ug/l | SW846 8260B |
|---------|--|--------|-----|------|------|-------------|

**FA65220-8      07960 TW-7**

No hits reported in this sample.

## Summary of Hits

**Job Number:** FA65220  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 06/12/19 thru 06/13/19

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA65220-9 07960 TW-8**

No hits reported in this sample.

**FA65220-10 07960 TW-10**

No hits reported in this sample.

**FA65220-11 07960 TW-11**

No hits reported in this sample.

**FA65220-12 07960 MW-1**

|                                |      |      |       |      |             |
|--------------------------------|------|------|-------|------|-------------|
| Benzene                        | 883  | 20   | 6.2   | ug/l | SW846 8260B |
| Toluene                        | 851  | 20   | 6.0   | ug/l | SW846 8260B |
| Ethylbenzene                   | 756  | 20   | 7.1   | ug/l | SW846 8260B |
| Xylene (total)                 | 3680 | 60   | 14    | ug/l | SW846 8260B |
| Naphthalene                    | 248  | 100  | 20    | ug/l | SW846 8260B |
| 1,2-Dichloroethane             | 57.2 | 20   | 6.2   | ug/l | SW846 8260B |
| Tert-Amyl Alcohol              | 2950 | 400  | 110   | ug/l | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup> | 3.1  | 0.19 | 0.093 | ug/l | SW846 8011  |

**FA65220-13 07960 MW-2**

|                    |        |     |      |      |             |
|--------------------|--------|-----|------|------|-------------|
| Benzene            | 11.1   | 1.0 | 0.31 | ug/l | SW846 8260B |
| Toluene            | 0.30 J | 1.0 | 0.30 | ug/l | SW846 8260B |
| Ethylbenzene       | 8.7    | 1.0 | 0.36 | ug/l | SW846 8260B |
| Xylene (total)     | 22.8   | 3.0 | 0.72 | ug/l | SW846 8260B |
| Naphthalene        | 5.4    | 5.0 | 1.0  | ug/l | SW846 8260B |
| 1,2-Dichloroethane | 13.1   | 1.0 | 0.31 | ug/l | SW846 8260B |
| Di-Isopropyl Ether | 0.70 J | 1.0 | 0.24 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  | 154    | 20  | 5.3  | ug/l | SW846 8260B |
| Tert-Butyl Alcohol | 248    | 20  | 5.3  | ug/l | SW846 8260B |

**FA65220-14 07960 MW-4**

|                    |        |     |      |      |             |
|--------------------|--------|-----|------|------|-------------|
| 1,2-Dichloroethane | 0.56 J | 1.0 | 0.31 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  | 46.4   | 20  | 5.3  | ug/l | SW846 8260B |
| Tert-Butyl Alcohol | 7.6 J  | 20  | 5.3  | ug/l | SW846 8260B |

**FA65220-15 07960 MW-6**

No hits reported in this sample.

## Summary of Hits

**Job Number:** FA65220  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 06/12/19 thru 06/13/19

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA65220-16 07960 MW-8**

No hits reported in this sample.

**FA65220-17 07960 MW-11**

|                         |        |     |      |      |             |
|-------------------------|--------|-----|------|------|-------------|
| Benzene                 | 0.39 J | 1.0 | 0.31 | ug/l | SW846 8260B |
| Methyl Tert Butyl Ether | 0.33 J | 1.0 | 0.23 | ug/l | SW846 8260B |
| 1,2-Dichloroethane      | 5.2    | 1.0 | 0.31 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol       | 178    | 20  | 5.3  | ug/l | SW846 8260B |
| Tert-Butyl Alcohol      | 12.3 J | 20  | 5.3  | ug/l | SW846 8260B |

**FA65220-18 07960 MW-12**

|                                |      |       |        |      |             |
|--------------------------------|------|-------|--------|------|-------------|
| Benzene                        | 1480 | 20    | 6.2    | ug/l | SW846 8260B |
| Toluene                        | 95.5 | 20    | 6.0    | ug/l | SW846 8260B |
| Ethylbenzene                   | 462  | 20    | 7.1    | ug/l | SW846 8260B |
| Xylene (total)                 | 1390 | 60    | 14     | ug/l | SW846 8260B |
| Naphthalene                    | 115  | 100   | 20     | ug/l | SW846 8260B |
| 1,2-Dichloroethane             | 136  | 20    | 6.2    | ug/l | SW846 8260B |
| Tert-Amyl Alcohol              | 4090 | 400   | 110    | ug/l | SW846 8260B |
| Tert-Butyl Alcohol             | 1330 | 400   | 110    | ug/l | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup> | 0.70 | 0.019 | 0.0093 | ug/l | SW846 8011  |

**FA65220-19 07960 MW-13**

|                    |        |     |     |      |             |
|--------------------|--------|-----|-----|------|-------------|
| Benzene            | 1220   | 20  | 6.2 | ug/l | SW846 8260B |
| Toluene            | 37.6   | 20  | 6.0 | ug/l | SW846 8260B |
| Ethylbenzene       | 119    | 20  | 7.1 | ug/l | SW846 8260B |
| Xylene (total)     | 587    | 60  | 14  | ug/l | SW846 8260B |
| Naphthalene        | 87.4 J | 100 | 20  | ug/l | SW846 8260B |
| 1,2-Dichloroethane | 87.7   | 20  | 6.2 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  | 3310   | 400 | 110 | ug/l | SW846 8260B |

**FA65220-20 07960 MW-20**

No hits reported in this sample.

**FA65220-21 07960 MW-21**

No hits reported in this sample.

**FA65220-22 07960 MW-22**

|         |      |     |    |      |             |
|---------|------|-----|----|------|-------------|
| Benzene | 3040 | 200 | 62 | ug/l | SW846 8260B |
|---------|------|-----|----|------|-------------|

## Summary of Hits

**Job Number:** FA65220  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 06/12/19 thru 06/13/19

| Lab Sample ID<br>Analyte         | Client Sample ID | Result/<br>Qual | RL    | MDL    | Units | Method      |
|----------------------------------|------------------|-----------------|-------|--------|-------|-------------|
| Toluene                          |                  | 9720            | 200   | 60     | ug/l  | SW846 8260B |
| Ethylbenzene                     |                  | 1450            | 200   | 71     | ug/l  | SW846 8260B |
| Xylene (total)                   |                  | 12900           | 600   | 140    | ug/l  | SW846 8260B |
| Naphthalene                      |                  | 1170            | 1000  | 200    | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                  | 106 J           | 200   | 62     | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                  | 2490 J          | 4000  | 1100   | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>   |                  | 4.4             | 0.19  | 0.094  | ug/l  | SW846 8011  |
| <b>FA65220-23 07960 MW-27</b>    |                  |                 |       |        |       |             |
| 1,2-Dichloroethane               |                  | 1.4             | 1.0   | 0.31   | ug/l  | SW846 8260B |
| <b>FA65220-24 07960 MW-3</b>     |                  |                 |       |        |       |             |
| Benzene                          |                  | 5660            | 100   | 31     | ug/l  | SW846 8260B |
| Toluene                          |                  | 189             | 100   | 30     | ug/l  | SW846 8260B |
| Ethylbenzene                     |                  | 951             | 100   | 36     | ug/l  | SW846 8260B |
| Xylene (total)                   |                  | 3540            | 300   | 72     | ug/l  | SW846 8260B |
| Naphthalene                      |                  | 395 J           | 500   | 100    | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                  | 389             | 100   | 31     | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                  | 10700           | 2000  | 530    | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>   |                  | 0.65            | 0.019 | 0.0094 | ug/l  | SW846 8011  |
| <b>FA65220-25 07960 MW-5</b>     |                  |                 |       |        |       |             |
| 1,2-Dichloroethane               |                  | 0.83 J          | 1.0   | 0.31   | ug/l  | SW846 8260B |
| <b>FA65220-26 07960 MW-7</b>     |                  |                 |       |        |       |             |
| Benzene                          |                  | 292             | 5.0   | 1.6    | ug/l  | SW846 8260B |
| Ethylbenzene                     |                  | 98.3            | 5.0   | 1.8    | ug/l  | SW846 8260B |
| Xylene (total)                   |                  | 169             | 15    | 3.6    | ug/l  | SW846 8260B |
| Naphthalene                      |                  | 37.8            | 25    | 5.0    | ug/l  | SW846 8260B |
| 1,2-Dichloroethane               |                  | 31.8            | 5.0   | 1.6    | ug/l  | SW846 8260B |
| Tert-Amyl Alcohol                |                  | 1080            | 100   | 26     | ug/l  | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup>   |                  | 0.046           | 0.019 | 0.0093 | ug/l  | SW846 8011  |
| <b>FA65220-27 07960 MW-9</b>     |                  |                 |       |        |       |             |
| No hits reported in this sample. |                  |                 |       |        |       |             |
| <b>FA65220-28 07960 MW-10</b>    |                  |                 |       |        |       |             |
| No hits reported in this sample. |                  |                 |       |        |       |             |

# Summary of Hits



**Job Number:** FA65220  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 06/12/19 thru 06/13/19

| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|----|-----|-------|--------|
|--------------------------|------------------|-----------------|----|-----|-------|--------|

**FA65220-29 07960 MW-17**

No hits reported in this sample.

**FA65220-30 07960 MW-19**

No hits reported in this sample.

**FA65220-31 07960 MW-23**

No hits reported in this sample.

**FA65220-32 07960 MW-25**

No hits reported in this sample.

**FA65220-33 07960 MW-28**

No hits reported in this sample.

**FA65220-34 07960 MW-29**

|                                 |      |     |      |      |             |
|---------------------------------|------|-----|------|------|-------------|
| Benzene                         | 78.9 | 1.0 | 0.31 | ug/l | SW846 8260B |
| Toluene                         | 1.2  | 1.0 | 0.30 | ug/l | SW846 8260B |
| Ethylbenzene                    | 4.1  | 1.0 | 0.36 | ug/l | SW846 8260B |
| Xylene (total)                  | 13.7 | 3.0 | 0.72 | ug/l | SW846 8260B |
| Methyl Tert Butyl Ether         | 3.9  | 1.0 | 0.23 | ug/l | SW846 8260B |
| Naphthalene                     | 8.3  | 5.0 | 1.0  | ug/l | SW846 8260B |
| 1,2-Dichloroethane <sup>b</sup> | 115  | 10  | 3.1  | ug/l | SW846 8260B |
| Di-Isopropyl Ether              | 4.4  | 1.0 | 0.24 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol <sup>b</sup>  | 8140 | 200 | 53   | ug/l | SW846 8260B |
| Tert-Butyl Alcohol              | 596  | 20  | 5.3  | ug/l | SW846 8260B |

**FA65220-35 07960 MW-30**

|                    |      |     |     |      |             |
|--------------------|------|-----|-----|------|-------------|
| Benzene            | 584  | 10  | 3.1 | ug/l | SW846 8260B |
| Toluene            | 50.8 | 10  | 3.0 | ug/l | SW846 8260B |
| Ethylbenzene       | 21.7 | 10  | 3.6 | ug/l | SW846 8260B |
| Xylene (total)     | 358  | 30  | 7.2 | ug/l | SW846 8260B |
| Naphthalene        | 56.7 | 50  | 10  | ug/l | SW846 8260B |
| 1,2-Dichloroethane | 36.4 | 10  | 3.1 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  | 2130 | 200 | 53  | ug/l | SW846 8260B |



## Summary of Hits

**Job Number:** FA65220  
**Account:** GRI (Geological Resources Inc.)  
**Project:** 378 Truck Stop; 731 Hwy 378, Edgefield, SC  
**Collected:** 06/12/19 thru 06/13/19

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA65220-36 07960 DUP A**

|                                |       |       |        |      |             |
|--------------------------------|-------|-------|--------|------|-------------|
| Benzene                        | 5970  | 100   | 31     | ug/l | SW846 8260B |
| Toluene                        | 154   | 100   | 30     | ug/l | SW846 8260B |
| Ethylbenzene                   | 848   | 100   | 36     | ug/l | SW846 8260B |
| Xylene (total)                 | 3320  | 300   | 72     | ug/l | SW846 8260B |
| Naphthalene                    | 358 J | 500   | 100    | ug/l | SW846 8260B |
| 1,2-Dichloroethane             | 397   | 100   | 31     | ug/l | SW846 8260B |
| Tert-Amyl Alcohol              | 8800  | 2000  | 530    | ug/l | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup> | 0.51  | 0.019 | 0.0094 | ug/l | SW846 8011  |

**FA65220-37 07960 DUP B**

|                    |        |     |     |      |             |
|--------------------|--------|-----|-----|------|-------------|
| Benzene            | 1390   | 20  | 6.2 | ug/l | SW846 8260B |
| Toluene            | 40.3   | 20  | 6.0 | ug/l | SW846 8260B |
| Ethylbenzene       | 119    | 20  | 7.1 | ug/l | SW846 8260B |
| Xylene (total)     | 606    | 60  | 14  | ug/l | SW846 8260B |
| Naphthalene        | 83.9 J | 100 | 20  | ug/l | SW846 8260B |
| 1,2-Dichloroethane | 92.5   | 20  | 6.2 | ug/l | SW846 8260B |
| Tert-Amyl Alcohol  | 2810   | 400 | 110 | ug/l | SW846 8260B |

**FA65220-38 07960 DUP C**

|                                |       |      |       |      |             |
|--------------------------------|-------|------|-------|------|-------------|
| Benzene                        | 3340  | 100  | 31    | ug/l | SW846 8260B |
| Toluene                        | 9250  | 100  | 30    | ug/l | SW846 8260B |
| Ethylbenzene                   | 1280  | 100  | 36    | ug/l | SW846 8260B |
| Xylene (total)                 | 12400 | 300  | 72    | ug/l | SW846 8260B |
| Naphthalene                    | 1290  | 500  | 100   | ug/l | SW846 8260B |
| 1,2-Dibromoethane <sup>a</sup> | 3.9   | 0.19 | 0.093 | ug/l | SW846 8011  |

(a) All hits confirmed by dual column analysis.

(b) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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**Sample Results**

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**Report of Analysis**

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**Report of Analysis**

3.1  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-1                        | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-1                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133518.D | 1  | 06/20/19 02:54 | AJ | n/a       | n/a        | VC5308           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | 10     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | 0.37   | 1.0 | 0.30 | ug/l  | J |
| 100-41-4  | Ethylbenzene                    | 2.4    | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 3.2    | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | 5.5    | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 48.2   | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | 1.5    | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 1180   | 20  | 5.3  | ug/l  | E |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | 77.6   | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-1                        | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-1                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107123.D | 1  | 06/17/19 19:25 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 115%   |        | 63-137% |       |   |

---

|   |                              |  |
|---|------------------------------|--|
| ND = Not detected                             | MDL = Method Detection Limit | J = Indicates an estimated value                       |
| RL = Reporting Limit                          |                              | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range |                              | N = Indicates presumptive evidence of a compound       |

### Report of Analysis

3.2  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-2                        | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-2                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133519.D | 1  | 06/20/19 03:20 | AJ | n/a       | n/a        | VC5308           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | 0.94   | 1.0 | 0.23 | ug/l  | J |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 12.3   | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | 1.1    | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 735    | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | 41.5   | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.2  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-2                        | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-2                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107127.D | 1  | 06/17/19 20:38 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 90%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.3  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-3                        | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-3                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133520.D | 1  | 06/20/19 03:46 | AJ | n/a       | n/a        | VC5308           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.3  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-3                        |                                |
| <b>Lab Sample ID:</b> FA65220-3                            | <b>Date Sampled:</b> 06/12/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107129.D | 1  | 06/17/19 21:14 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.7 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 94%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 FB                          | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-4                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Field Blank Water                      | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133521.D | 1  | 06/20/19 04:12 | AJ | n/a       | n/a        | VC5308           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 93%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.4  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 FB                          | <b>Date Sampled:</b> 06/12/19  |
| <b>Lab Sample ID:</b> FA65220-4                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Field Blank Water                      | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107130.D | 1  | 06/17/19 21:32 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 94%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.5  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960-TB                          |                                |
| <b>Lab Sample ID:</b> FA65220-5                            | <b>Date Sampled:</b> 06/12/19  |
| <b>Matrix:</b> AQ - Trip Blank Water                       | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0133522.D | 1  | 06/20/19 04:39 | AJ | n/a       | n/a        | VC5308           |
| Run #2              |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>b</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.  
 (b) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-4                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-6                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133523.D | 1  | 06/20/19 05:05 | AJ | n/a       | n/a        | VC5308           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.6

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-4                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-6                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107131.D | 1  | 06/17/19 21:50 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.1 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 93%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-5                        |                                |
| <b>Lab Sample ID:</b> FA65220-7                            | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133524.D | 1  | 06/20/19 05:31 | AJ | n/a       | n/a        | VC5308           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | 0.60   | 1.0 | 0.30 | ug/l  | J |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.7  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-5                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-7                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107132.D | 1  | 06/17/19 22:08 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 72%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.8  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-7                        |                                |
| <b>Lab Sample ID:</b> FA65220-8                            | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0133525.D | 1  | 06/20/19 05:57 | AJ | n/a       | n/a        | VC5308           |
| Run #2              |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>b</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

- (a) Sample was not preserved to a pH < 2.
- (b) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound



### Report of Analysis

3.8  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-7                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-8                            | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107133.D | 1  | 06/17/19 22:26 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 38.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.018  | 0.0092  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 90%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.9  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-8                        |                                |
| <b>Lab Sample ID:</b> FA65220-9                            | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133592.D | 1  | 06/22/19 01:40 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.9  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-8                        |                                |
| <b>Lab Sample ID:</b> FA65220-9                            | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107134.D | 1  | 06/17/19 22:44 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 95%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

3.10  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-10                       |                                |
| <b>Lab Sample ID:</b> FA65220-10                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0133593.D | 1  | 06/22/19 02:06 | AJ | n/a       | n/a        | VC5311           |
| Run #2              |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>b</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

- (a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
- (b) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-10                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-10                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107135.D | 1  | 06/17/19 23:02 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 41.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.017  | 0.0085  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 80%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.11  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-11                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-11                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133594.D | 1  | 06/22/19 02:32 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 TW-11                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-11                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107136.D | 1  | 06/17/19 23:20 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 93%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.12

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-1                        |                                |
| <b>Lab Sample ID:</b> FA65220-12                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133584.D | 20 | 06/21/19 22:11 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL   | MDL  | Units | Q |
|-----------|---------------------------------|--------|------|------|-------|---|
| 71-43-2   | Benzene                         | 883    | 20   | 6.2  | ug/l  |   |
| 108-88-3  | Toluene                         | 851    | 20   | 6.0  | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 756    | 20   | 7.1  | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 3680   | 60   | 14   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 20   | 4.6  | ug/l  |   |
| 91-20-3   | Naphthalene                     | 248    | 100  | 20   | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 57.2   | 20   | 6.2  | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 20   | 4.8  | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 1000 | 200  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 4000 | 1600 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 40   | 4.7  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 2950   | 400  | 110  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 40   | 4.9  | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 400  | 110  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 400  | 100  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 107%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-1                        |                                |
| <b>Lab Sample ID:</b> FA65220-12                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD107167.D | 10 | 06/18/19 12:27 | NM | 06/17/19 10:30 | OP75483    | GDD3085          |
| Run #2              |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound          | Result | RL   | MDL   | Units | Q |
|----------|-------------------|--------|------|-------|-------|---|
| 106-93-4 | 1,2-Dibromoethane | 3.1    | 0.19 | 0.093 | ug/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1          | Run# 2 | Limits  |
|----------|----------------------|-----------------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 0% <sup>b</sup> |        | 63-137% |

- (a) All hits confirmed by dual column analysis.
- (b) Outside control limits due to dilution.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.13  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-2                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-13                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133595.D | 1  | 06/22/19 02:58 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | 11.1   | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | 0.30   | 1.0 | 0.30 | ug/l  | J |
| 100-41-4  | Ethylbenzene                    | 8.7    | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 22.8   | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | 5.4    | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 13.1   | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | 0.70   | 1.0 | 0.24 | ug/l  | J |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 154    | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | 248    | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-2                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-13                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107140.D | 1  | 06/18/19 00:32 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 94%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.14  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-4                        |                                |
| <b>Lab Sample ID:</b> FA65220-14                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133596.D | 1  | 06/22/19 03:24 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 0.56   | 1.0 | 0.31 | ug/l  | J |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 46.4   | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | 7.6    | 20  | 5.3  | ug/l  | J |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-4                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-14                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107141.D | 1  | 06/18/19 00:50 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 90%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-6                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-15                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133597.D | 1  | 06/22/19 03:49 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.15  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-6                        |                                |
| <b>Lab Sample ID:</b> FA65220-15                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107142.D | 1  | 06/18/19 01:08 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 94%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.16  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-8                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-16                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133598.D | 1  | 06/22/19 04:15 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.16  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-8                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-16                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107143.D | 1  | 06/18/19 01:26 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 86%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.17  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-11                       |                                |
| <b>Lab Sample ID:</b> FA65220-17                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133599.D | 1  | 06/22/19 04:41 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | 0.39   | 1.0 | 0.31 | ug/l  | J |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | 0.33   | 1.0 | 0.23 | ug/l  | J |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 5.2    | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 178    | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | 12.3   | 20  | 5.3  | ug/l  | J |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 102%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.17  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-11                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-17                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107144.D | 1  | 06/18/19 01:44 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.3 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 88%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



**Report of Analysis**

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-12                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-18                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133585.D | 20 | 06/21/19 22:38 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL   | MDL  | Units | Q |
|-----------|---------------------------------|--------|------|------|-------|---|
| 71-43-2   | Benzene                         | 1480   | 20   | 6.2  | ug/l  |   |
| 108-88-3  | Toluene                         | 95.5   | 20   | 6.0  | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 462    | 20   | 7.1  | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 1390   | 60   | 14   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 20   | 4.6  | ug/l  |   |
| 91-20-3   | Naphthalene                     | 115    | 100  | 20   | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 136    | 20   | 6.2  | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 20   | 4.8  | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 1000 | 200  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 4000 | 1600 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 40   | 4.7  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 4090   | 400  | 110  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 40   | 4.9  | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | 1330   | 400  | 110  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 400  | 100  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 102%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.18

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-12                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-18                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD107208.D | 1  | 06/19/19 16:55 | NM | 06/17/19 10:30 | OP75483    | GDD3086          |
| Run #2              |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.70   | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 85%    |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.19  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-13                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-19                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133586.D | 20 | 06/21/19 23:05 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL   | MDL  | Units | Q |
|-----------|---------------------------------|--------|------|------|-------|---|
| 71-43-2   | Benzene                         | 1220   | 20   | 6.2  | ug/l  |   |
| 108-88-3  | Toluene                         | 37.6   | 20   | 6.0  | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 119    | 20   | 7.1  | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 587    | 60   | 14   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 20   | 4.6  | ug/l  |   |
| 91-20-3   | Naphthalene                     | 87.4   | 100  | 20   | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane              | 87.7   | 20   | 6.2  | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 20   | 4.8  | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 1000 | 200  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 4000 | 1600 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 40   | 4.7  | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 3310   | 400  | 110  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 40   | 4.9  | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 400  | 110  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 400  | 100  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 106%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

3.19

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-13                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-19                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107146.D | 1  | 06/18/19 02:20 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 82%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.20  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-20                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-20                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133600.D | 1  | 06/22/19 05:07 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-20                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-20                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107147.D | 1  | 06/18/19 02:38 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.9 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.018  | 0.0092  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 84%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.21  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-21                       |                                |
| <b>Lab Sample ID:</b> FA65220-21                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133601.D | 1  | 06/22/19 05:33 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-21                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-21                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107148.D | 1  | 06/18/19 02:56 | NM | 06/17/19 10:30 | OP75483    | GDD3084          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.0 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0095  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 86%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.22  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-22                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-22                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133587.D | 200 | 06/21/19 23:30 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |     |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL    | MDL   | Units | Q |
|-----------|---------------------------------|--------|-------|-------|-------|---|
| 71-43-2   | Benzene                         | 3040   | 200   | 62    | ug/l  |   |
| 108-88-3  | Toluene                         | 9720   | 200   | 60    | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 1450   | 200   | 71    | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 12900  | 600   | 140   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 200   | 46    | ug/l  |   |
| 91-20-3   | Naphthalene                     | 1170   | 1000  | 200   | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 106    | 200   | 62    | ug/l  | J |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 200   | 48    | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 10000 | 2000  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 40000 | 16000 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 400   | 47    | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 2490   | 4000  | 1100  | ug/l  | J |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 400   | 49    | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 4000  | 1100  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 4000  | 1000  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

**Report of Analysis**

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-22                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-22                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD107221.D | 10 | 06/20/19 10:20 | NM | 06/18/19 10:30 | OP75506    | GDD3087          |
| Run #2              |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.3 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result          | RL     | MDL     | Units | Q |
|----------|----------------------|-----------------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 4.4             | 0.19   | 0.094   | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1          | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 0% <sup>b</sup> |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.  
 (b) Outside control limits due to dilution.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-27                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-23                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133602.D | 1  | 06/22/19 05:58 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 1.4    | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-27                       |                                |
| <b>Lab Sample ID:</b> FA65220-23                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107180.D | 1  | 06/18/19 16:23 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 76%    |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.24  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-3                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-24                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133588.D | 100 | 06/21/19 23:56 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |     |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL    | MDL  | Units | Q |
|-----------|---------------------------------|--------|-------|------|-------|---|
| 71-43-2   | Benzene                         | 5660   | 100   | 31   | ug/l  |   |
| 108-88-3  | Toluene                         | 189    | 100   | 30   | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 951    | 100   | 36   | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 3540   | 300   | 72   | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 100   | 23   | ug/l  |   |
| 91-20-3   | Naphthalene                     | 395    | 500   | 100  | ug/l  | J |
| 107-06-2  | 1,2-Dichloroethane              | 389    | 100   | 31   | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 100   | 24   | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 5000  | 1000 | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 20000 | 8200 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 200   | 24   | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 10700  | 2000  | 530  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 200   | 24   | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 2000  | 530  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 2000  | 500  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-3                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-24                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD107182.D | 1  | 06/18/19 16:59 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2              |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.2 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.65   | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 76%    |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.25  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-5                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-25                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133603.D | 1  | 06/22/19 06:24 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                         | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene                     | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 0.83   | 1.0 | 0.31 | ug/l  | J |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 98%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit    J = Indicates an estimated value  
 RL = Reporting Limit    B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-5                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-25                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107183.D | 1  | 06/18/19 17:18 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.5 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 71%    |        | 63-137% |       |   |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-7                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-26                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0133591.D | 5  | 06/22/19 01:14 | AJ | n/a       | n/a        | VC5311           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                        | Result | RL   | MDL | Units | Q |
|-----------|---------------------------------|--------|------|-----|-------|---|
| 71-43-2   | Benzene                         | 292    | 5.0  | 1.6 | ug/l  |   |
| 108-88-3  | Toluene                         | ND     | 5.0  | 1.5 | ug/l  |   |
| 100-41-4  | Ethylbenzene                    | 98.3   | 5.0  | 1.8 | ug/l  |   |
| 1330-20-7 | Xylene (total)                  | 169    | 15   | 3.6 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 5.0  | 1.1 | ug/l  |   |
| 91-20-3   | Naphthalene                     | 37.8   | 25   | 5.0 | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane              | 31.8   | 5.0  | 1.6 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether              | ND     | 5.0  | 1.2 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol          | ND     | 250  | 50  | ug/l  |   |
| 64-17-5   | Ethyl Alcohol                   | ND     | 1000 | 410 | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether          | ND     | 10   | 1.2 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol               | 1080   | 100  | 26  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether          | ND     | 10   | 1.2 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol              | ND     | 100  | 27  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate <sup>a</sup> | ND     | 100  | 25  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

(a) Associated BS recovery outside control limits low.

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-7                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-26                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|                     | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 <sup>a</sup> | DD107233.D | 1  | 06/24/19 12:12 | NM | 06/24/19 09:15 | OP75598    | GDD3088          |
| Run #2              |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound             | Result | RL     | MDL     | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane    | 0.046  | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene | 97%    |        | 63-137% |       |   |

(a) All hits confirmed by dual column analysis.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.27  
3

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-9                        |  | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-27                           |  | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |  |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |  |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64675.D | 1  | 06/22/19 02:57 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

3.27  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-9                        | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-27                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107187.D | 1  | 06/18/19 18:30 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 63%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-10                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-28                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64676.D | 1  | 06/22/19 03:22 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-10                       |                                |
| <b>Lab Sample ID:</b> FA65220-28                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107188.D | 1  | 06/18/19 18:48 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 78%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

3.29  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-17                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-29                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64677.D | 1  | 06/22/19 03:47 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.29

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-17                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-29                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107189.D | 1  | 06/18/19 19:06 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.8 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 77%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.30  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-19                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-30                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64680.D | 1  | 06/22/19 05:01 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 83-118% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-19                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-30                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107190.D | 1  | 06/18/19 19:24 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 63%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.31  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-23                       |                                |
| <b>Lab Sample ID:</b> FA65220-31                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8260B                                 | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64681.D | 1  | 06/22/19 05:26 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 83-118% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

3.31

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-23                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-31                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107191.D | 1  | 06/18/19 19:43 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.4 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0094  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 74%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

---

|   |                              |  |
|---|------------------------------|--|
| ND = Not detected                             | MDL = Method Detection Limit | J = Indicates an estimated value                       |
| RL = Reporting Limit                          |                              | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range |                              | N = Indicates presumptive evidence of a compound       |

### Report of Analysis

3.32

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-25                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-32                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64682.D | 1  | 06/22/19 05:51 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



### Report of Analysis

3.32

3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-25                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-32                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8011 SW846 8011                       |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107192.D | 1  | 06/18/19 20:01 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.6 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 67%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.33  
3

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-28                       | <b>Date Sampled:</b> 06/13/19  |
| <b>Lab Sample ID:</b> FA65220-33                           | <b>Date Received:</b> 06/15/19 |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260B                                 |                                |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P64683.D | 1  | 06/22/19 06:16 | AB | n/a       | n/a        | VP2489           |
| Run #2 |          |    |                |    |           |            |                  |

| Run #  | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

**Purgeable Aromatics, MTBE, Naphthalene**

| CAS No.   | Compound                | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene                 | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-88-3  | Toluene                 | ND     | 1.0 | 0.30 | ug/l  |   |
| 100-41-4  | Ethylbenzene            | ND     | 1.0 | 0.36 | ug/l  |   |
| 1330-20-7 | Xylene (total)          | ND     | 3.0 | 0.72 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether | ND     | 1.0 | 0.23 | ug/l  |   |
| 91-20-3   | Naphthalene             | ND     | 5.0 | 1.0  | ug/l  |   |
| 107-06-2  | 1,2-Dichloroethane      | ND     | 1.0 | 0.31 | ug/l  |   |
| 108-20-3  | Di-Isopropyl Ether      | ND     | 1.0 | 0.24 | ug/l  |   |
| 624-95-3  | 3,3-Dimethyl-1-Butanol  | ND     | 50  | 10   | ug/l  |   |
| 64-17-5   | Ethyl Alcohol           | ND     | 200 | 82   | ug/l  |   |
| 637-92-3  | Ethyl Tert Butyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-85-4   | Tert-Amyl Alcohol       | ND     | 20  | 5.3  | ug/l  |   |
| 994-05-8  | Tert-Amyl Methyl Ether  | ND     | 2.0 | 0.24 | ug/l  |   |
| 75-65-0   | Tert-Butyl Alcohol      | ND     | 20  | 5.3  | ug/l  |   |
| 762-75-4  | Tert-Butyl Formate      | ND     | 20  | 5.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

3.33  
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|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> 07960 MW-28                       |                                |
| <b>Lab Sample ID:</b> FA65220-33                           | <b>Date Sampled:</b> 06/13/19  |
| <b>Matrix:</b> AQ - Ground Water                           | <b>Date Received:</b> 06/15/19 |
| <b>Method:</b> SW846 8011 SW846 8011                       | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> 378 Truck Stop; 731 Hwy 378, Edgefield, SC |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | DD107193.D | 1  | 06/18/19 20:19 | NM | 06/18/19 10:30 | OP75506    | GDD3085          |
| Run #2 |            |    |                |    |                |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 37.7 ml        | 2.0 ml       |
| Run #2 |                |              |

| CAS No.  | Compound                       | Result | RL     | MDL     | Units | Q |
|----------|--------------------------------|--------|--------|---------|-------|---|
| 106-93-4 | 1,2-Dibromoethane <sup>a</sup> | ND     | 0.019  | 0.0093  | ug/l  |   |
| CAS No.  | Surrogate Recoveries           | Run# 1 | Run# 2 | Limits  |       |   |
| 460-00-4 | 4-Bromofluorobenzene           | 70%    |        | 63-137% |       |   |

(a) Associated CCV outside of control limits high, sample was ND.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound