D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

JUL 22 2009

MR ROBERT TURNER
ODOM OIL COMPANY
P O BOX 1291
SPARTANBURG SC 29304-1291

Re: AFVR and Groundwater Sampling Directive
Rhodes Service Station, 410 Spartanburg Hwy S, Wellford, SC
UST Permit # 08562; CA # 36169
Release reported January 24, 1990
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The Program has reviewed the technical file for the facility and determined the next necessary scope of work to be Aggressive Fluid/Vapor Recovery (AFVR) to remove free phase product from MW-4 and MW-15 (space the events on each well two weeks apart, if product still exists). Approximately one month after completion of the AFVR a comprehensive groundwater sampling event should be completed to obtain current data. Samples from all monitoring wells associated with the release should be collected and analyzed for BTEX + naphthalene + MTBE, EDB, 1,2 DCA, lead and 8 Oxygenates. Also, all potential receptors (drinking water wells, creeks, etc.) located within 1000 feet of the UST area, shall be sampled and analyzed for BTEX, Naph, MtBE and EDB. All groundwater samples and analyses should be in accordance with *Analytical Methodology* dated August 24, 2005. A copy of this publication is available on line at http://www.scdhec.gov/eqc/ admin/html/..%5C..%5Cust% 5Cpubs% 5Canalmet.pdf. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that the Program cannot make a decision based upon a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL). In this case, payment for the analysis may be denied. Please note that purging will not be required for existing monitoring wells where the water table is bracketed by the screen.

Cost Agreement # 36169 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR and groundwater sampling activities may proceed immediately upon receipt of this letter. The AFVR/Groundwater Sampling Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather conditions during the AFVR event.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.

UST DOCKET

- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).
- The total volume of free phase product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.
- Recovered free phase petroleum and groundwater must be accepted by a permitted treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report.
- A narrative portion documenting current site conditions during the groundwater sampling event noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Historical and current groundwater laboratory analytical data for all monitoring wells shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

Blue Ridge Environmental 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.

A free product recovery/groundwater monitoring report and invoice are due within 90 days from the date of this letter. 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 Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Program for the cost to be paid. The SCDHEC 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, SCDHEC 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 Department grants pre-approval for transportation of virgin petroleum impacted 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 concerning this site, please reference **UST Permit #** 08562. If there are any questions concerning this project, please contact me at (803) 896-6664.

Sincerely,

Maia Milenkova, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
cc: Technical File (w/enc)
Blue Ridge Environmental Services, Inc., 2315 Kings Road Extension, Shelby, NC 28152 (w/enc)

SCDHEC/UST/05/05/09/MPM

Approved Cost Agreement 36169

Facility: 08562 RHODES SERVICE STATION
MILENKMP
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		A EQUIPMENT	2.0000	575.00	1,150.00
		B PERSONNEL	4.0000	290.00	1,160.00
10 SAMPLE COLLECTION					
		A GROUND WATER	1.0000	55.00	55.00
		C WATER SUPPLY	3.0000	25.00	75.00
		D GROUNDWATER NO-PURGE	20.0000	35.00	700.00
		E GAUGE WELL ONLY	2.0000	20.00	40.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	23.0000	100.00	2,300.00
		BB 1,2-DCA	20.0000	10.75	215.00
		E LEAD	20.0000	20.00	400.00
		F EDB	23.0000	55.00	1,265.00
		P 8 OXYGENATES	20.0000	85.00	1,700.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	1.0000	90.00	90.00
		A2 WASTEWATER - PUMPING TEST	1,000.0000	0.60	600.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	16,310.00	2,446.50
23 EFR					
		A 8 HOUR EVENT	2.0000	3,000.00	6,000.00
		C OFF GAS TREATMENT	16.0000	35.00	560.00
				Total Amount	18,756.50

D H E C

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Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

AUG 1 8 2015

UST 10 tech DOCKETING

MR ROBERT F TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

Re: **Site-Specific Work Plan Request**
Rhodes Service Station, 410 Spartanburg Highway South (U.S. Highway 29), Wellford , SC
UST Permit #08562
Release reported January 24, 1990
Aggressive Fluid Vapor Recovery Report received August 11, 2010
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report. The report indicates the removal of free-phase product and gasoline emissions from the subsurface during an Aggressive Fluid Vapor Recovery event conducted at the site on June 10, 2010.

To determine what risk the referenced release may pose to the environment and public health and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a groundwater monitoring event as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0 is necessary. This monitoring must be conducted in accordance with the UST QAPP and in compliance with all applicable regulations. Monitoring wells MW-1 through MW-8, MW-9R, MW-10 through MW-13, MW-14R, MW-15 through MW-25, VMW-1, and VMW-2 associated with the release must be purged and sampled. Laboratory analyses should be performed for BTEX, naphthalene, MtBE, 1,2-DCA, the oxygenates, and EDB. A copy of the QAPP Revision 2.0 for the UST Division is available at:
http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Your contractor must complete and submit an approvable Site-Specific Work Plan and associated Cost Proposal for the aforementioned scope of work to the UST Division within thirty (30) days of the date of this letter. The Site-Specific Work Plan form may be found at **http://www.scdhec.gov/library/D-0653.pdf.** 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 new SUPERB rates became effective May 15, 2014 and 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 #08562**. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Blue Ridge Environmental Services, Inc., 2315 Kings Road, Extension, Shelby, NC 28152
Technical File

MR/SSWP08.17.15

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Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

UST DOCKETING 11Hech

UST SEP 30 2015 PROGRAM

To: Michael Rivers (SCDHEC Project Manager)
From: Joe McMurray (Contractor Project Manager)
Contractor: Blue Ridge Env. Serv., Inc. UST Contractor Certification Number: 095

Facility Name: Rhodes Service Station UST Permit #: 08562
Facility Address: 410 Spartanburg Hwy, Wellford, SC
Responsible Party: Odom Oil Company Phone: _____
RP Address: 655 Perrin Drive
Property Owner (if different): Service Oil Company, Inc.
Property Owner Address: 1107 Union St., Spartanburg, SC 29302
Current Use of Property: C Store

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 _____

Soil:

- ☐ BTEXN
- ☐ 8 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	2 Field Blank
24 Monitoring Wells	____ Surface Water	2 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: _____ 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 #: 08562 Facility Name: Rhodes Service Station

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 days Field Work Completion: 33 days
Report Submittal: 60 days # 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: 350 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

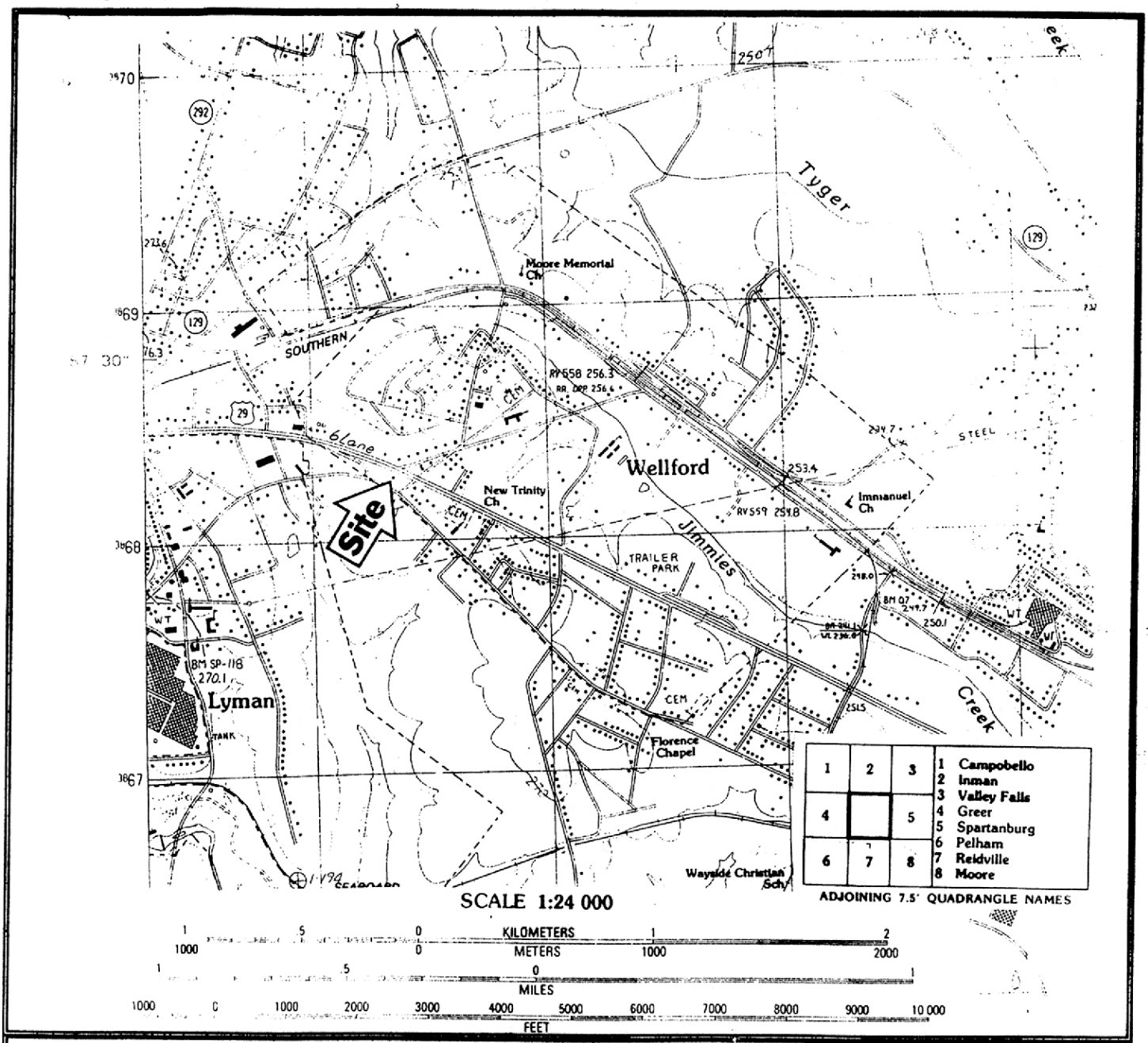
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
This is an all purge sampling event. Purge water is a high estimate.
Three monitor wells were noted as being destroyed or missing in the last sampling event from 2010.
It is probable that even more wells will be missing after a 5 year hiatus.

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: _____

No 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



Site Vicinity Map
Rhodes Service Station
Wellford, Spartanburg County, North Carolina

Figure: 1
Scale: 1:24 000

Drawn By: USGS
Date: March 13, 2000

Note: Map is a reproduction of a portion of USGS topographic map 7.5 minute series Wellford quadrangle.

Blue Ridge Environmental Services, Inc.

CONTOUR INTERVAL 3 METERS
CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST METER
To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by .3048

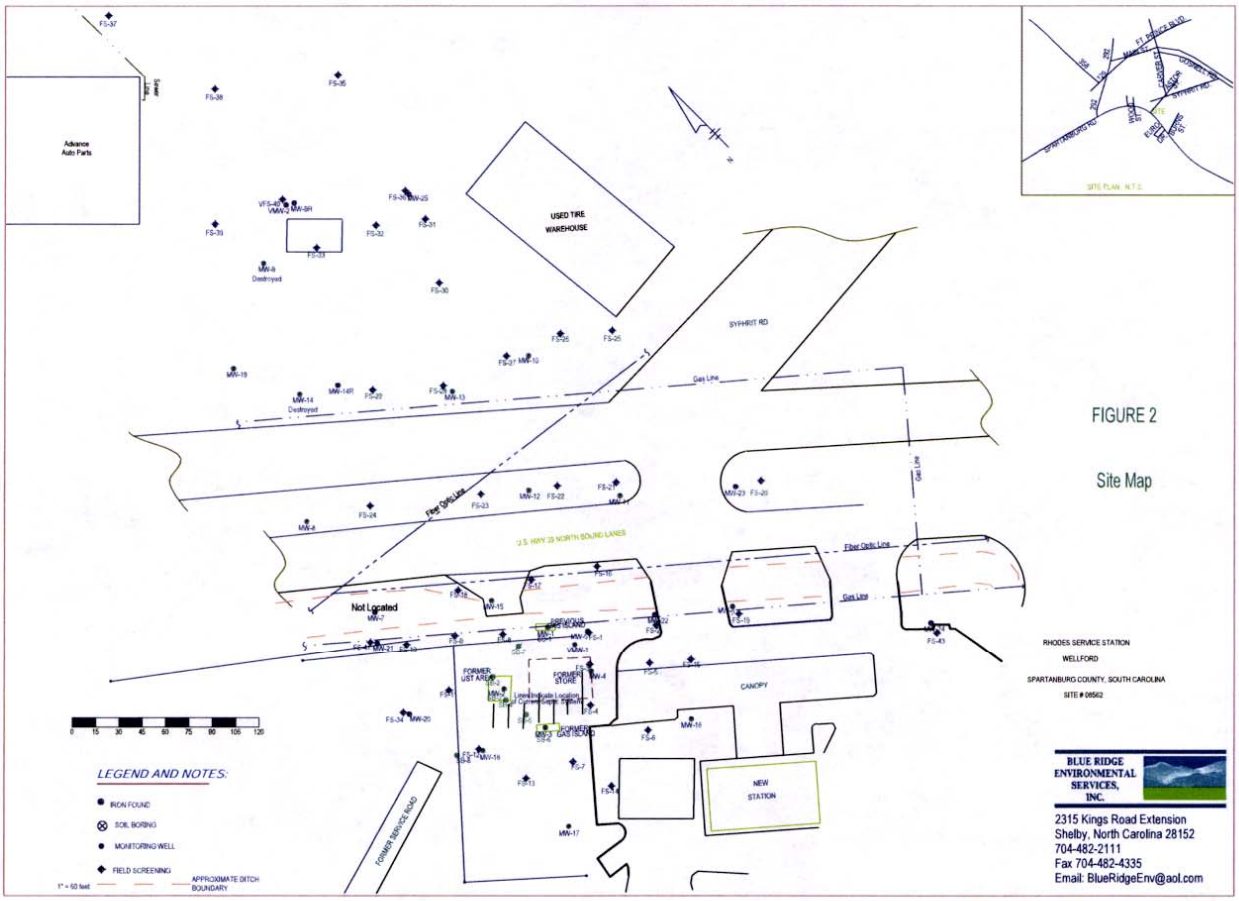


FIGURE 2

Site Map

RHODES SERVICE STATION

WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

D H E C

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South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

September 23, 2015

Facility Name: Rhodes Service Station

UST Permit #: 08562 **Cost Agreement #:** _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
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
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
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
4. **Mob/Demob**				
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
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
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
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig) 2 wells		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
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	24	er well/recept	$60.00	$1,440.00
B1. Air or Vapors		per recepto	$12.00	$0.00
C1. Water Supply		per well/recept	$22.00	$0.00
D1. Groundwater No Purge or Duplicate	2	er well/recept	$28.00	$56.00
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

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	30	per sample	$122.00		$3,660.00
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	30	per sample	$45.20		$1,356.00
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
11. **Analyses-Soil**					
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
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
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
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	350	gallon	$0.56		$196.00
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
18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
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
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
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
25. **Well Repair**					
A1. Additional Copies of the Report Deli	1	each	$50.00		$50.00
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
I1. 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
Report Prep & Project Management	12%	percent	$7,803.20		$936.38
TOTAL					$8,739.58

*The appropriate mobilization cost can be added to complete these tasks, as necessary

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

UST
D/2 tech
DOCKETING

MR ROBERT F TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

OCT 15 2015

Re: **Groundwater Sampling Directive**
Rhodes Service Station, 410 Spartanburg Highway South (U.S. Highway 29), Wellford, SC
UST Permit #08562; Cost Agreement #50842
Release reported January 24, 1990
Site-Specific Work Plan and Cost Proposal received September 30, 2015
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed and approved the referenced work plan submitted on your behalf by Blue Ridge Environmental Services, Inc. The previous assessment work for this release indicates that petroleum Chemicals of Concern (CoC) are present in the groundwater at concentrations that exceed risk-based screening levels (RBSL). In order to obtain current groundwater quality data, a comprehensive sampling event is necessary. All work must be conducted in accordance with the UST Quality Assurance Protection Plan (QAPP) Revision 2.0 and in compliance with all applicable regulations. A copy of the Agency QAPP for the UST Division is available at: http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost Agreement #50842 has been approved for the amount shown on the enclosed cost agreement form for the sampling of all monitoring wells associated with the release. Groundwater samples should be analyzed for BTEX, naphthalene, MtBE, 1,2-DCA, the oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field blanks, and trip blanks.

In accordance with the QAPP Revision 2.0, a weekly status report of the project should be provided by e-mail. If any quality assurance problems arise, you must contact me within 24 hours via telephone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the Agency.

The monitoring report, contractor checklist from Appendix K of the QAPP, and invoice are due within sixty (60) days from the date of this letter. Interim invoices may not be submitted for this scope of work. 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.

Blue Ridge Environmental Services, Inc. may 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 UST 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 UST Division 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.

If unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of RBSL, the data cannot be used. In those cases, the UST Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST 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 RBSL, 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 RBSL.

On all correspondence regarding this directive, please reference **UST Permit #08562 and Cost Agreement #50842**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. Joe McMurray, Blue Ridge Environmental Services, Inc., 2315 Kings Road Extension, Shelby, NC 28152, (w/ enc.)
Technical File (w/ enc.)

MR GWSDIR10 07 15

Approved Cost Agreement 50842

Facility 08562 RHODES SERVICE STATION
RIVERSMS
PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1 0000	150 00	150 00
04 MOB/DEMOB						
		B1	PERSONNEL	2 0000	423 00	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	24.0000	60 00	1,440 00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2 0000	28 00	56 00
		H1	FIELD BLANK	2 0000	24 60	49 20
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	30 0000	122 00	3,660 00
		F1	EDB BY 8011	28 0000	45 20	1,265 60
17 DISPOSAL						
		AA	WASTEWATER	350 0000	0 56	196 00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	7,712 80	925 54
25 WELL REPAIR						
		A1	ADDITIONAL COPIES OF REPORT	1 0000	50 00	50 00
				Total Amount		8,638 34

Document Receipt Information

☒ Hard Copy ☒ CD ☐ Email

Date Received 12-2-2015

Permit Number 08562

Project Manager Mike Rivers

Name of Contractor Blue Ridge Environmental

UST Certification Number

Docket Number 13 tech

Scanned

GW Monitoring Report

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
SC Contractor # 0095
Email: BRESI@blueridge-esi.com

November 30, 2015

Mr. Michael Rivers, Hydrogeologist
SCDHEC
Corrective Action Section
UST Management Division
2600 Bull Street
Columbia, SC 29201

Subject: **Groundwater Monitoring Report**
Former Rhodes Service Station
410 Spartanburg Highway South
Wellford, SC 29385
UST Permit # 08562

Dear Mr. Rivers:

The purpose of this correspondence is to present the results of groundwater sampling activities performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 50842, per correspondence from your office dated October 15, 2015. Groundwater sampling activities were conducted in accordance with the QAPP Revision 2.0 and in compliance with all applicable regulations. The location of the monitoring wells is illustrated on Figure 2.

Introduction

1. UST Facility Name: Former Rhodes Service Station

   UST Permit Number: 08562

   Address: 410 Spartanburg Highway, Wellford, South Carolina, 29385

   Phone Number: N/A

2. UST Owner: Odom Oil Company

   Address: 850 Hayne Street, Spartanburg, South Carolina, 29301

   Phone Number: (864) 583-3684

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3. UST Operator: N/A

   Address: N/A

   Phone Number: N/A

4. Property Owner Name: Service Oil Company

   Address: P.O. Box 3255, Spartanburg, South Carolina, 29304

   Phone Number: (864) 583-3688

5. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.

   Address: 2315 Kings Road Ext., Shelby, North Carolina, 28152

   SCDHEC Certified Contractor Number: 0095

6. SCDHEC Certified Laboratory: Shealy Environmental Services, Inc.

   Address: 106 Vantage Point Drive, Columbia, South Carolina, 29172

   Phone Number: (803) 791-9700

   SCDHEC Certified Laboratory Certification Number: 32010

Facility History

Two 4,000 gallon and two 2,000 gallon single walled steel USTs were previously located at the site and were reportedly removed from the site on November 11, 1911. A release was reported to SCDHEC on January 24, 1990. The release was caused by a leaking UST System with an unknown quantity of product released. The former UST system is described in detail on the table below titled Former USTs Located Onsite.

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Former UST's Located Onsite

UST #	Product	Date Installed (Year)	Currently in use (Yes or No)	Tank Size (Gallons)	If not in use, Date Removed	Removed (Yes or No)
1	Gasoline	Unknown	No	2,000	11/11/1911	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes
4	Gasoline	Unknown	No	4,000	11/11/1911	Yes

Regional Geology and Hydrogeology

The site is located in the Inner Piedmont within the Piedmont Physiographic Province. The Inner Piedmont Belt is characterized by upper amphibolite facies granite gneiss, mica schist, migmatites, and granotoid rocks with low to moderately dipping recumbent folds. The igneous and metamorphic rocks are weathered to saprolite and near the surface to residual soil. Depths and thicknesses of soil and saprolite vary widely, from less than one to hundreds of feet thick; generally it is thin on ridges and thicker on slopes and broad uplands.

The Piedmont groundwater system is a two-part system consisting of regolith, composed of a granular layer of soil and saprolite and thin, discontinuous alluvial deposits, overlying fractured, crystalline bedrock. Hydraulically, the regolith functions as the reservoir of the system and the bedrock fractures as pipelines that transmit water from the regolith to natural discharge areas. In detail, the regolith consists of a porous and permeable soil zone that grades downward into saprolite, which in turn, grades into unweathered rock. In saprolite, water flows through interstitial pore space while in unweathered rocks, flow is via fractures. Groundwater in the Piedmont occurs in a shallow saturated zone in saprolite and also more commonly in a much thicker bedrock "aquifer". Saturated saprolite is hydraulically connected in most areas to the underlying bedrock.

Groundwater Data

The monitoring wells sampled were purged on October 29, 2015. Blue Ridge's field staff removed groundwater from the monitoring wells for purging using a new polyethylene bailer, suspended by nylon monofilament line. Prior to purging the monitoring wells, static water levels and total well depths were recorded. Groundwater was purged from the wells until field measurements of temperature, pH, specific conductivity, dissolved oxygen and turbidity were stabilized, the well was bailed dry, or until five well volumes were removed from the well. Groundwater parameters were

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collected using a Horiba-U52. Groundwater purge data can be viewed in Appendix A and a wastewater disposal manifest is included as Appendix C.

Prior to sampling each monitoring well, Blue Ridge staff used clean nitrile gloves to avoid sample contamination and cross-contamination and laboratory provided, sterile, sample containers labeled with sample name, sample ID, site name, required lab analyses, preservative, sampler initials, date and time of sample collection. In addition, groundwater samples were collected using a new polyethylene bailer, suspended by nylon monofilament line. Each bailer was slowly lowered into the water table; allowed to fill; then extracted from the well. The water samples were placed in the laboratory-provided and approved sample jars; sealed; logged onto a chain-of-custody form; then placed on ice in a cooler for cold storage.

On October 30, 2015 groundwater samples were collected from monitoring wells 08562-MW-1, 08562-MW-5, 08562-MW-6, 08562-9R, 08562-MW-11, 08562-MW-12, 08562-MW-14R, 08562-MW-15, 08562-MW-16, 08562-MW-20 through 08562-MW-25, and 08562-VMW-1. Please note samples were not taken from monitoring wells 08562-MW-2, 08562-MW-3, 08562-MW-7, 08562-MW-8, 08562-MW-10, 08562-MW-13, 08562-MW-17, 08562-MW-18, 08562-MW-19 and 08562-VMW-2 because they were unable to be located the time of sampling. In addition, monitoring well 08562-MW-4 had a measureable amount (0.60 ft.) of Free Phase Product (FPP) present at the time of sampling therefore no sample was collected. The groundwater samples were submitted for laboratory analysis for BTEX, Naphthalene, MTBE, 1,2-DCA and Eight Oxygenates by EPA Method 8260B and EDB by EPA Method 8011.

One field duplicate sample was collected from monitoring well 08562-MW-1 and a field blank was also prepared for the site's groundwater sampling event. The field blank was provided by the laboratory and was prepared using DI water in an approved sample jar. The field blank jar lid was opened at the time of the groundwater sampling event to duplicate field environmental conditions. One trip blank per cooler was used at the site. The trip blank was provided by the laboratory using DI water in an approved sample jar and remained sealed throughout the round trip journey to the site and back to the laboratory.

The depth to groundwater measurements obtained from the shallow monitoring wells ranged from 15.26 feet below grade level (bgl) at 08562-MW-23 to 19.90 feet bgl at 08562-MW-14R. The depth to groundwater measurement obtained from the deep monitoring well was 17.42 at 08562-VMW-1. A potentiometric map depicting aquifer flow is enclosed as Figure 3. Relative groundwater elevation data and well screen interval data are presented in Table 1 - Potentiometric Data. Based on the groundwater data obtained, the current groundwater flow direction is predominately towards the

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north.

Results and Discussion

0.60 feet of FPP was measured in 08652-MW-4. Groundwater analytical results indicated that of the sixteen monitoring wells sampled, three (08562-MW-1, 08562-MW-5 and 08562-MW-15) had detectable concentrations of Benzene, Toluene, Ethylbenzene, Xylene, MTBE, Naphthalene and/or EDB above Risk-Based Screening Levels (RBSLs) for one or more constituents. The remaining chemicals of concern (COCs) reported during this assessment were below the RBSLs in the remaining monitoring wells. In addition, the groundwater samples collected had no detectable contaminate concentrations of oxygenates reported in the groundwater samples collected.

Please refer to Table 2 - Select Summary of Groundwater Analytical Data and Table 3 - Select Summary of Eight Oxygenate Data for current and historical analytical data. A COC map is enclosed as Figure 4 and depicts the groundwater contaminant concentration levels from the October 30, 2015 sampling event at site specific locations. For a complete list of laboratory results, analytical methods and the dates sampled, refer to Appendix B - Laboratory Analytical Results and Chain of Custody Records.

Based on the results of the groundwater sampling event, Blue Ridge recommends conducting an Aggressive Fluid Vapor Recovery (AFVR) event on monitoring wells 08562-MW-4, 08562-MW-5 and 08562-MW-15. In addition, Blue Ridge recommends sampling all monitoring wells on a regular basis. If you have any questions regarding this matter, please do not hesitate to contact us at (704) 482-2111.

Respectfully submitted,
Blue Ridge Environmental Services, Inc.

Gary L. Harden II
Environmental Scientist

JOSEPH WILLIAM McMURRAY REGISTERED NO. 2111 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Joseph W. McMurray, P.G.
S.C. Registration #2111

cc: Robert F. Turner

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Enclosures

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TABLES

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-1	1/21/00	100.00	15-25	N/A	N/A	17.91	82.09
	4/23/01			N/A	N/A	17.49	82.51
	11/20/01			N/A	N/A	19.41	80.59
	6/20/02			N/A	N/A	18.12	81.88
	10/28/09			N/A	N/A	18.03	81.97
	2/18/10			NR			
	10/29/15			N/A	N/A	15.89	84.11
08562-MW-2	1/21/00	99.04	15-25	N/A	N/A	18.02	81.02
	4/23/01			N/A	N/A	17.92	81.12
	11/20/01			N/A	N/A	20.03	79.01
	6/20/02			N/A	N/A	18.82	80.22
	9/15/09			N/A	N/A	18.85	80.19
	2/18/10			N/A	N/A	NR	NR
	10/29/15			Not Located			
08562-MW-3	1/21/00	99.57	15-25	N/A	N/A	17.45	82.12
	4/23/01			N/A	N/A	18.16	81.41
	11/20/01			N/A	N/A	19.77	79.80
	6/20/02			N/A	N/A	18.09	81.48
	10/28/09			N/A	N/A	18.11	81.46
	2/18/10			NR			
	10/29/15			Not Located			
08562-MW-4	4/23/01	98.65	10-30	FPP			
	11/20/01			FPP			
	6/20/02			FPP			
	9/15/09			18.45	0.18	18.63	80.17
	2/18/10			NR			
	10/29/15			16.21	0.60	16.81	82.35
08562-MW-5	4/23/01	97.85	10-30	N/A	N/A	17.20	80.65
	11/20/01			N/A	N/A	19.12	78.73
	6/20/02			N/A	N/A	17.84	80.01
	9/15/09			N/A	N/A	17.64	80.21
	2/18/10			NR			
	10/29/15			N/A	N/A	15.61	82.24

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-6	4/23/01	97.87	10-30	N/A	N/A	16.93	80.94
	11/20/01			N/A	N/A	18.82	79.05
	6/20/02			N/A	N/A	17.59	80.28
	9/15/09			N/A	N/A	17.22	80.65
	2/18/10			NR			
	10/29/15			N/A	N/A	15.69	82.18
08562-MW-7	4/23/01	97.26	10-30	N/A	N/A	17.86	79.40
	11/20/01			N/A	N/A	19.50	77.76
	6/20/02			N/A	N/A	18.18	79.08
	9/15/09			Not Located			
	2/18/10			Not Located			
	10/29/15			Not Located			
08652-MW-8	4/23/01	99.33	10-30	N/A	N/A	20.92	78.41
	11/20/01			N/A	N/A	22.10	77.23
	6/20/02			N/A	N/A	19.72	79.61
	9/15/09			N/A	N/A	20.58	78.75
	2/18/10			NR			
	10/29/15			Not Located			
08652-MW-9	4/23/01	98.70	10-30	N/A	N/A	20.46	78.24
	11/20/01			Not Located			
	6/20/02			N/A	N/A	21.69	77.01
	9/15/09			Not Located			
	2/18/10			NR			
08652-MW-9R	2/18/10	98.43	10-30	N/A	N/A	16.72	81.71
	10/29/15			N/A	N/A	19.13	79.30
08652-MW-10	4/23/01	98.71	10-30	N/A	N/A	19.04	79.67
	11/20/01			N/A	N/A	21.03	77.68
	6/20/02			N/A	N/A	19.68	79.03
	9/15/09			N/A	N/A	19.55	79.16
	2/18/10			NR			
	10/29/15			Not Located			

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-11	4/23/01	98.49	7-27	N/A	N/A	18.39	80.10
	11/20/01			N/A	N/A	19.98	78.51
	6/20/02			N/A	N/A	18.70	79.79
	9/15/09			N/A	N/A	18.50	79.99
	2/18/10			NR			
	10/29/15			N/A	N/A	16.94	81.55
08652-MW-12	4/23/01	97.75	10-30	N/A	N/A	18.21	79.54
	11/20/01			N/A	N/A	19.47	78.28
	6/20/02			N/A	N/A	18.19	79.56
	9/15/09			N/A	N/A	18.01	79.74
	2/18/10			NR			
	10/29/15			N/A	N/A	16.34	81.41
08652-MW-13	4/23/01	99.30	15-35	N/A	N/A	19.94	79.36
	11/20/01			N/A	N/A	21.85	77.45
	6/20/02			NR			
	10/28/09			N/A	N/A	20.74	78.56
	2/18/10			NR			
	10/29/15			Not Located			
08652-MW-14	4/23/01	100.29	15-35	N/A	N/A	21.54	78.75
	11/20/01			N/A	N/A	23.42	76.87
	6/20/02			NR			
	9/15/09			Not Located			
	2/18/10			Not Located			
08652-MW-14R	2/18/10	99.96	10-30	N/A	N/A	17.52	82.44
	10/29/15			N/A	N/A	19.90	80.06
08652-MW-15	4/23/01	97.79	10-30	FPP			
	11/20/01			FPP			
	6/20/02			FPP			
	10/28/09			17.94	0.77	18.71	79.74
	2/18/10			NR			
	10/29/15			N/A	N/A	15.79	82.00

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-16	4/23/01	98.68	10-30	N/A	N/A	17.87	80.81
	11/20/01			N/A	N/A	19.70	78.98
	6/20/02			N/A	N/A	18.50	80.18
	9/15/09			N/A	N/A	18.19	80.49
	2/18/10			NR			
	10/29/15			N/A	N/A	16.33	82.35
08652-MW-17	4/23/01	98.89	10-30	N/A	N/A	18.29	80.60
	11/20/01			N/A	N/A	20.05	78.84
	6/20/02			N/A	N/A	18.83	80.06
	10/28/09			N/A	N/A	18.75	80.14
	2/18/10			NR			
	10/29/15			Not Located			
08652-MW-18	4/23/01	98.43	10-30	N/A	N/A	18.12	80.31
	11/20/01			N/A	N/A	19.88	78.55
	6/20/02			N/A	N/A	18.61	79.82
	10/28/09			N/A	N/A	18.94	79.49
	2/18/10			NR			
	10/29/15			Not Located			
08652-MW-19	6/20/02	N/A	15-35	N/A	N/A	21.86	N/A
	10/28/09			N/A	N/A	22.18	N/A
	2/18/10			NR			
	10/29/15			Not Located			
08652-MW-20	2/18/10	98.68	10-30	N/A	N/A	17.19	81.49
	10/29/15			N/A	N/A	16.99	81.69
08652-MW-21	2/18/10	99.39	15-30	N/A	N/A	16.74	82.65
	10/29/15			N/A	N/A	17.87	81.52
08652-MW-22	2/18/10	97.69	15-30	N/A	N/A	13.35	84.34
	10/29/15			N/A	N/A	15.83	81.86
08652-MW-23	2/18/10	97.33	10-30	N/A	N/A	12.42	84.91
	10/29/15			N/A	N/A	15.26	82.07
08652-MW-24	2/18/10	98.13	15-30	N/A	N/A	12.91	85.22
	10/29/15			N/A	N/A	15.11	83.02

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-25	2/18/10	98.06	10-30	N/A	N/A	15.75	82.31
	10/29/15			N/A	N/A	18.51	79.55
08652-VMW-1	11/20/01	98.32	55-60	N/A	N/A	25.96	72.36
	6/20/02			N/A	N/A	20.48	77.84
	9/15/09			N/A	N/A	19.28	79.04
	2/18/10			NR			
	10/29/15			N/A	N/A	17.42	80.90
08652-VMW-2	2/18/10	98.32	36-41	N/A	N/A	19.38	78.94
	10/29/15			Not Located			

[1] Keyed to Figure 3
N/A: Not Applicable
NR: Not Requested
FPP: Free Phase Product

TABLE 2[1]
Former Rhodes Service Station
Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
Well ID	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-1	1/21/00	**21,000**	**85,000**	**2,800**	**21,000**	ND	**460**	NR	N/A	**2.3**	0.26	ND	ND	0.79
	4/24/01	**12,400**	**38,000**	**1,660**	**21,000**	ND	**434**	NR	**835**	**1.98**	ND	ND	1.45	1.36
	11/20/01	**19,100**	**49,800**	**3,800**	**21,900**	ND	**530**	NR	N/A	**2.32**	N/A	N/A	N/A	N/A
	6/20/02	**12,100**	**34,500**	**2,330**	**12,700**	ND	**380**	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**3,300**	**26,000**	**3,700**	**21,500**	<100	**680**	<100	**69**	0.038	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	**420**	**8,600**	**1,700**	**12,000**	<50	**480**	<50	**3.1**	N/A	N/A	N/A	N/A	N/A
08562-MW-1 Duplicate	10/30/15	**390**	**7,900**	**1,500**	**11,000**	<50	**420**	<50	**3**	N/A	N/A	N/A	N/A	N/A
08562-MW-2	1/21/00	**9**	**1,600**	**880**	5,000	ND	**220**	N/A	NR	**0.12**	N/A	N/A	N/A	14
	4/24/01	ND	60.2	110	420	ND	**30.9**	ND	NR	**0.315**	0.11	ND	6.76	0.463
	11/20/01	ND	262	663	3,860	ND	**125**	N/A	NR	**0.125**	N/A	N/A	N/A	N/A
	6/20/02	ND	56.6	148	541	ND	**33.8**	NA	NR	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1.0	<1.0	55	1.4	ND	**34**	<1.0	<0.021	0.068	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
08562-MW-3	1/21/00	**4,100**	**75,000**	**3,300**	**18,000**	ND	**400**	NR	N/A	**0.063**	ND	ND	120	27
	4/24/01	**1,350**	**49,000**	**1,810**	**16,700**	ND	**614**	NR	ND	**0.445**	ND	ND	156	16
	11/20/01	**1,500**	**48,900**	**3,770**	**22,600**	ND	**645**	NR	N/A	**0.218**	N/A	N/A	N/A	N/A
	6/20/02	**711**	**44,800**	**3,760**	**20,700**	ND	**624**	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<100	**8,700**	**4,400**	**16,400**	<100	**360**	<100	<0.021	**0.026**	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
08562-MW-4	4/24/01	Not Sampled												
	11/20/01	FPP												
	6/20/02	FPP												
	9/15/09	FPP												
	10/28/09	FPP												
	10/30/15	FPP												
08562-MW-5	4/24/01	**9,480**	**28,500**	**860**	5,680	ND	NR	NR	**460**	**0.088**	0.59	ND	10.4	2.08
	11/20/01	**19,200**	**30,000**	**1,400**	**17,800**	ND	**510**	NR	N/A	**0.808**	N/A	N/A	N/A	N/A
	6/20/02	**17,100**	**36,400**	**1,740**	1,330	18	**258**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**19,000**	**51,000**	**4,100**	**23,200**	<1,000	<1,000	<1,000	**500**	**1.3**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	**4,700**	**27,000**	**2,100**	**20,000**	<200	**630**	<200	**48**	N/A	N/A	N/A	N/A	N/A
08562-MW-6	4/24/01	ND	ND	ND	3.1	ND	ND	NR	ND	**0.192**	0.52	0.44	ND	0.102
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**84**	150	19	68	<1.0	<1.0	<1.0	<0.021	**0.041**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	N/A	N/A	N/A	N/A	N/A

TABLE 2[1]

Former Rhodes Service Station

Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
Well ID	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-7	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.144**	1.11	ND	ND	0.19
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.053**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	Not Located												
	10/30/15	Not Located												
08562-MW-8	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.016**	0.79	ND	ND	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	0.007	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1.0	1.1	<1.0	<3.0	<1.0	<1.0	<1.0	<0.022	**0.28**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
08562-MW-9	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.404**	1.84	ND	1.44	0.615
	11/20/01	Not Sampled												
	6/20/02	Not Sampled												
	9/15/09	Not Located												
	10/28/09	Not Located												
08562-MW-9R	10/30/15	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-10	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.078**	2.48	ND	1.42	0.184
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	NR	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.021	0	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
08562-MW-11	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.092**	1.22	ND	5.65	10.2
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.042**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NR	<0.021	**0.016**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	2.7	<1.0	<1.0	<1.0	7.2	<1.0	<1.0	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-12	4/24/01	**4,850**	**5,160**	**1,090**	6,150	ND	**93.0**	NR	**30.1**	**0.094**	ND	ND	2.32	ND
	11/20/01	**4,410**	467	410	3,270	ND	**194**	NR	N/A	**0.109**	N/A	N/A	N/A	N/A
	6/20/02	**2,400**	682	497	2,140	ND	**194**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**950**	**2,200**	**1,100**	4,900	38	**320**	**55**	**3.6**	**0.023**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08652-MW-13	4/24/01	**2,300**	29.8	45.8	**15,000**	ND	**28.2**	NR	**11.6**	0.003	ND	ND	ND	ND
	11/20/01	**1,790**	23.5	497	303	ND	**101**	NR	N/A	**0.138**	N/A	N/A	N/A	N/A
	6/20/02	**2,050**	ND	385	2,700	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<1.0	<1.0	4.1	49	<1.0	<1.0	**20**	<0.021	**0.24**	N/A	N/A	N/A	N/A
	10/30/15	Not Located												

TABLE 2[1]

Former Rhodes Service Station

Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
Well ID	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-14	4/24/01	**2,800**	ND	ND	ND	ND	ND	NR	ND	**0.119**	1.05	ND	4.18	0.288
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.196**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	Not Located												
08562-MW-14R	10/30/15	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	0.025	N/A	N/A	N/A	N/A	N/A
08652-MW-15	4/24/01	Not Sampled												
	11/20/01	FPP												
	6/20/02	FPP												
	9/15/09	FPP												
	10/28/09	FPP												
	10/30/15	**1,700**	**16,000**	**1,900**	**15,000**	<50	**610**	<50	**20**	N/A	N/A	N/A	N/A	N/A
08562-MW-16	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.089**	0.81	ND	9.26	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	ND	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	ND	N/A	N/A	N/A	N/A
	9/15/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.021	0	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	<1.0	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-17	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.13**	0.20	ND	ND	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	0.004	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.021	0.015	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
08562-MW-18	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.039**	10.80	ND	ND	0.126
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.049**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	**0.039**	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NR	<0.021	<0.0050	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
08562-MW-19	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	NR	NR	NR	NR
	9/15/09	Not Sampled												
	10/28/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.021	0	NR	NR	NR	NR
	10/30/15	Not Located												
08562-MW-20	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-21	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-22	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-23	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-24	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-25	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A

TABLE 2[1]

Former Rhodes Service Station

Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
Well ID	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-VMW-1	4/24/01	**67.4**	140	29.3	199	ND	30.4	NR	ND	ND	NR	NR	26,800	0.111
	11/20/01	2.9	3.7	ND	3.4	ND	ND	N/A	N/A	ND	NR	NR	N/A	N/A
	6/20/02	3.8	4.7	ND	7.1	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**7**	9.7	<1.0	6.4	<1.0	1.6	<1.0	<0.021	<0.0050	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	1.5	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-VMW-2	2/18/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
08562-Field Blank	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
08562-Trip Blank	10/30/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	N/A	N/A	N/A	N/A	N/A
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A

[1]Keyed to Figure 4

Concentrations in bold exceed the RBSLs

N/A: Not Applicable

TABLE 3[1]
Former Rhodes Service Station
Select Summary of Eight Oxygenate Data

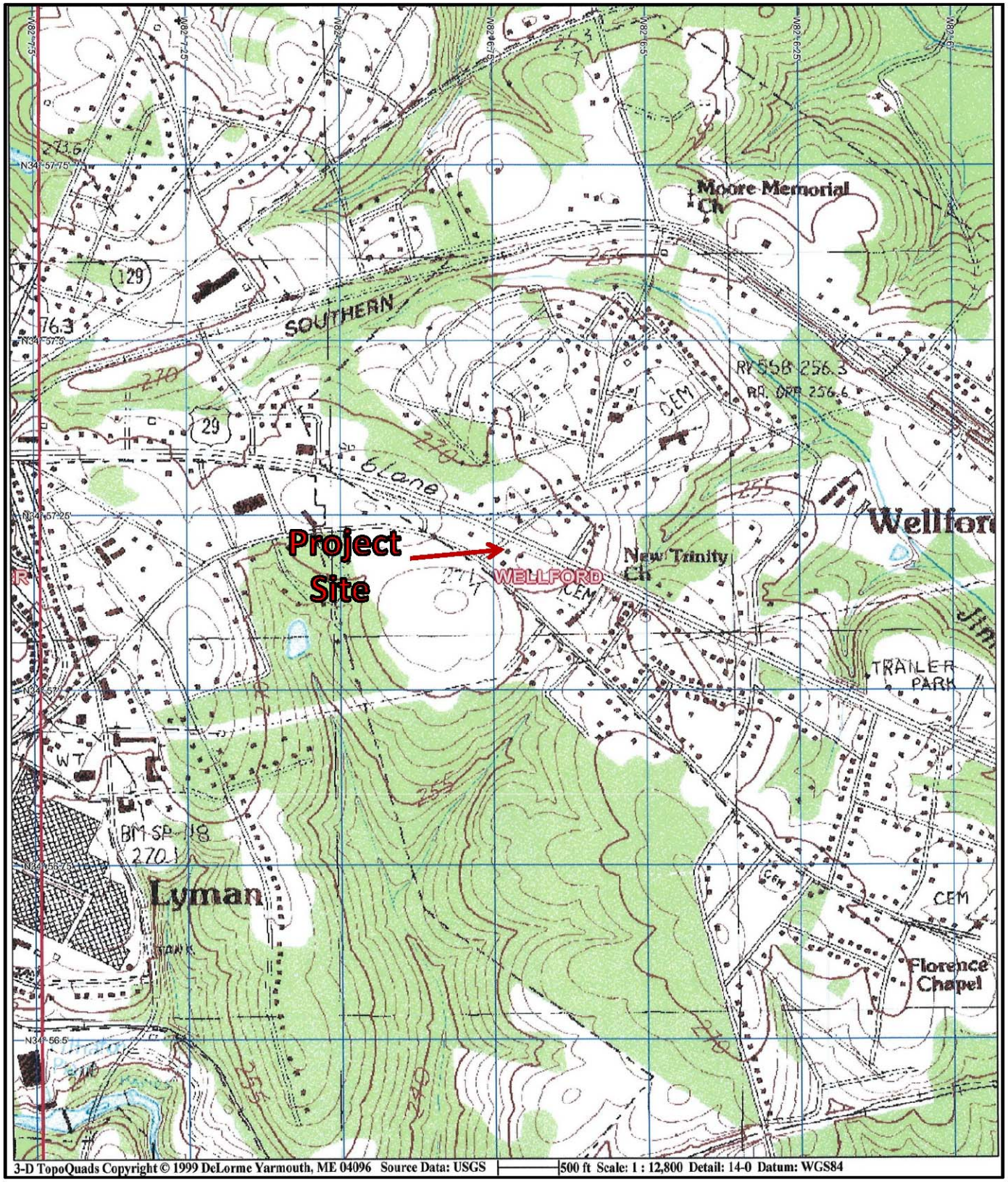
		EPA METHOD 8260 (ug/L)							
Well ID	SAMPLE DATE	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-1	9/15/09	<10.6	<1,190	<111	<5.18	<1,080	<6.96	<82.4	<7.14
	10/30/15	<50	<5,000	<1,000	<50	<1,000	<500	<1,000	<250
08562-MW-1 Duplicate	10/30/15	<50	<5,000	<1,000	<50	<1,000	<500	<1,000	<250
08562-MW-2	9/15/09	<0.529	<59.5	<5.56	<0.259	**176**	<0.348	<4.12	<0.357
	10/30/2015	Not Located							
08562-MW-3	10/28/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/2015	Not Located							
08562-MW-4	10/30/15	FPP							
08562-MW-5	9/15/09	**321**	<1,190	<111	<5.18	**7,950**	<6.96	<82.4	<7.14
	10/30/15	<200	<20,000	<4,000	<200	<4,000	<2,000	<4,000	<1,000
08562-MW-6	9/15/09	<2.65	<298	<27.8	<1.3	**1,110**	<1.74	<20.6	<1.79
	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-7	10/30/15	Not Located							
08562-MW-8	9/15/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
08562-MW-9R	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-10	9/15/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
08562-MW-11	9/15/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-12	9/15/09	**25.6**	<298	<27.8	<1.3	**812**	<1.74	<20.6	<1.79
	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-13	10/28/09	<3.69	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/2015	Not Located							
08562-MW-14R	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0

TABLE 3[1]
Former Rhodes Service Station
Select Summary of Eight Oxygenate Data

		EPA METHOD 8260 (ug/L)							
Well ID	SAMPLE DATE	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-15	10/30/15	<50	<5,000	<1,000	<50	<1,000	<500	<1,000	<250
08562-MW-16	9/15/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-17	9/15/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
08562-MW-18	10/28/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
08562-MW-19	10/28/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
08562-MW-20	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-21	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-22	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-23	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-24	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-MW-25	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-VMW-1	9/15/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-VMW-2	2/18/15	<5.0	<100	<20	<1.0	<20	<10	<20	<5.0
	10/30/15	Not Located							
08562-Field Blank	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
08562-Trip Blank	10/30/15	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0

[1]Keyed to Figure 4
Detectable concentrations are noted in bold.
N/A: Not Applicable

FIGURES



TOPOGRAPHIC MAP	0 1,111 ft.	North

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

Client:	Robert F. Turner		
Project:	Former Rhodes Service Station		
Location:	410 S0partanburg Highway South		
	Wellford, South Carolina 29385		
Source:	Delorme Topoquads		
Date: 11/4/2015	Approximate Scale: 1” = 1,111’	Figure 1	

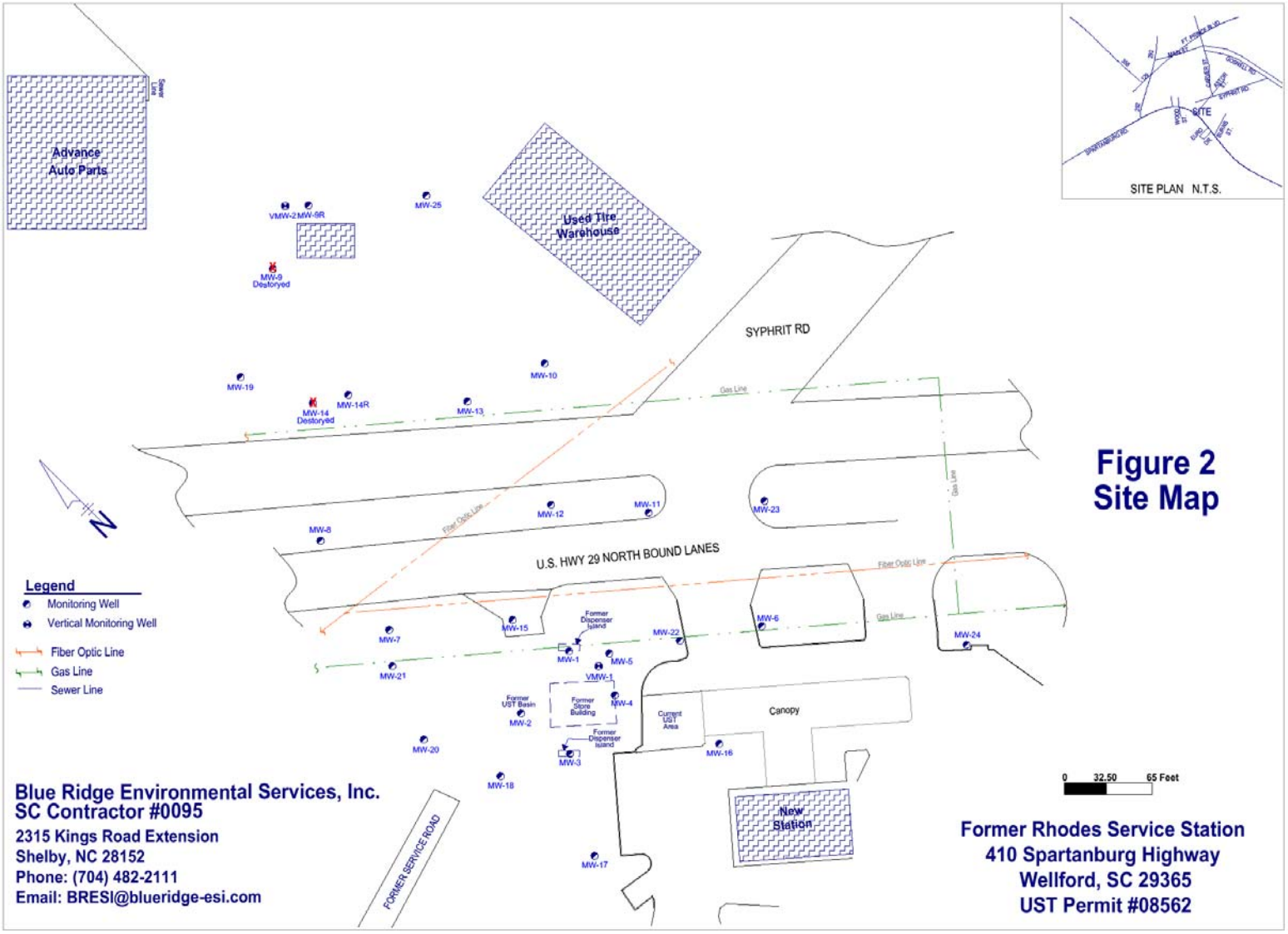
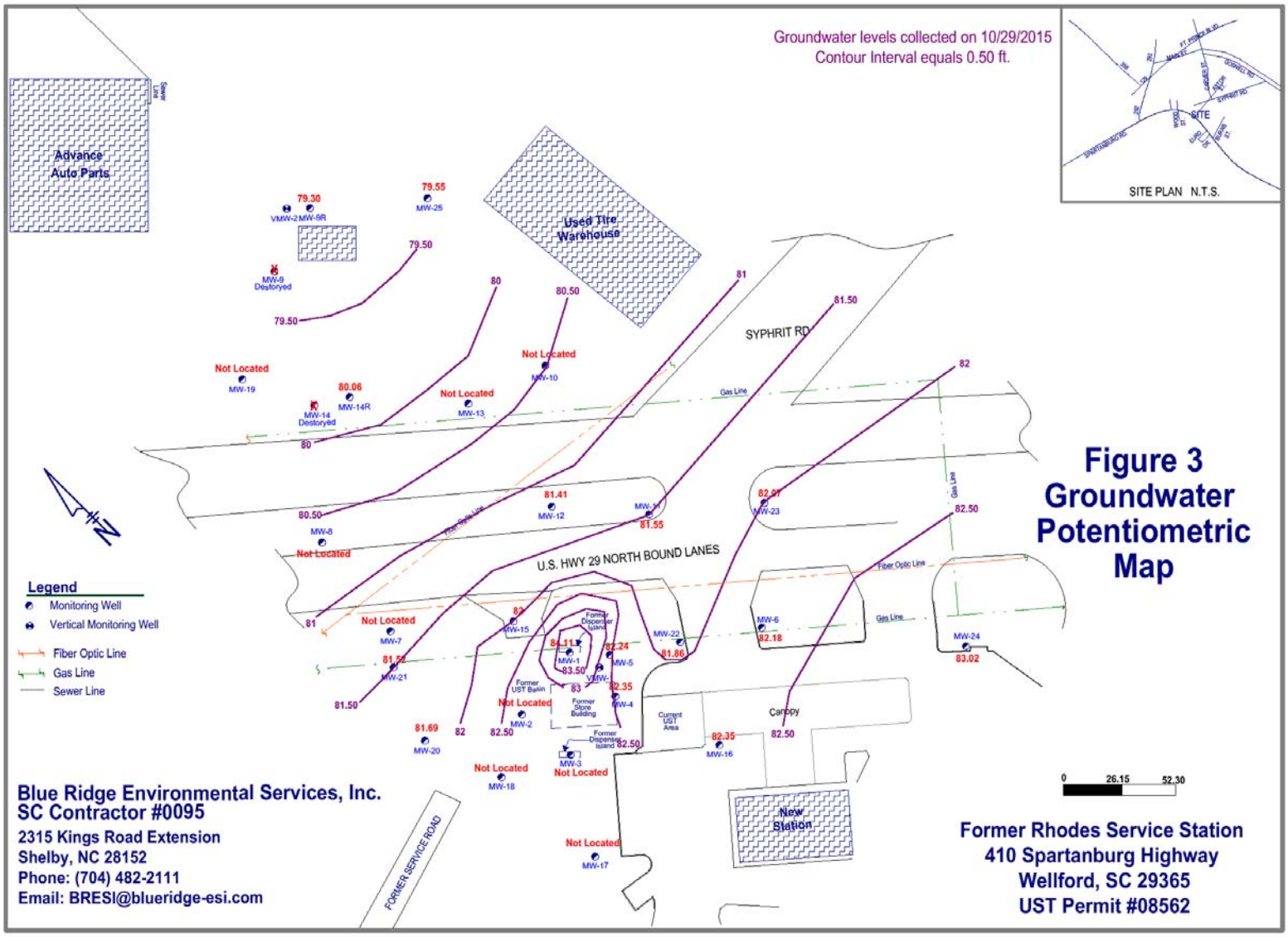


Figure 2
Site Map

Blue Ridge Environmental Services, Inc.
SC Contractor #0095
2315 Kings Road Extension
Shelby, NC 28152
Phone: (704) 482-2111
Email: BRESI@blueridge-esi.com

Former Rhodes Service Station
410 Spartanburg Highway
Wellford, SC 29365
UST Permit #08562


Groundwater levels collected on 10/29/2015
Contour Interval equals 0.50 ft.
SITE PLAN N.T.S.
Advance Auto Parts
Used Tire Warehouse
SYPHRIT RD
U.S. HWY 29 NORTH BOUND LANES
Former Rhodes Service Station
410 Spartanburg Highway
Wellford, SC 29365
UST Permit #08562
Figure 3
Groundwater Potentiometric Map
Legend
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Gas Line
Sewer Line
Blue Ridge Environmental Services, Inc.
SC Contractor #0095
2315 Kings Road Extension
Shelby, NC 28152
Phone: (704) 482-2111
Email: BRESI@blueridge-esi.com
0
26.15
52.30

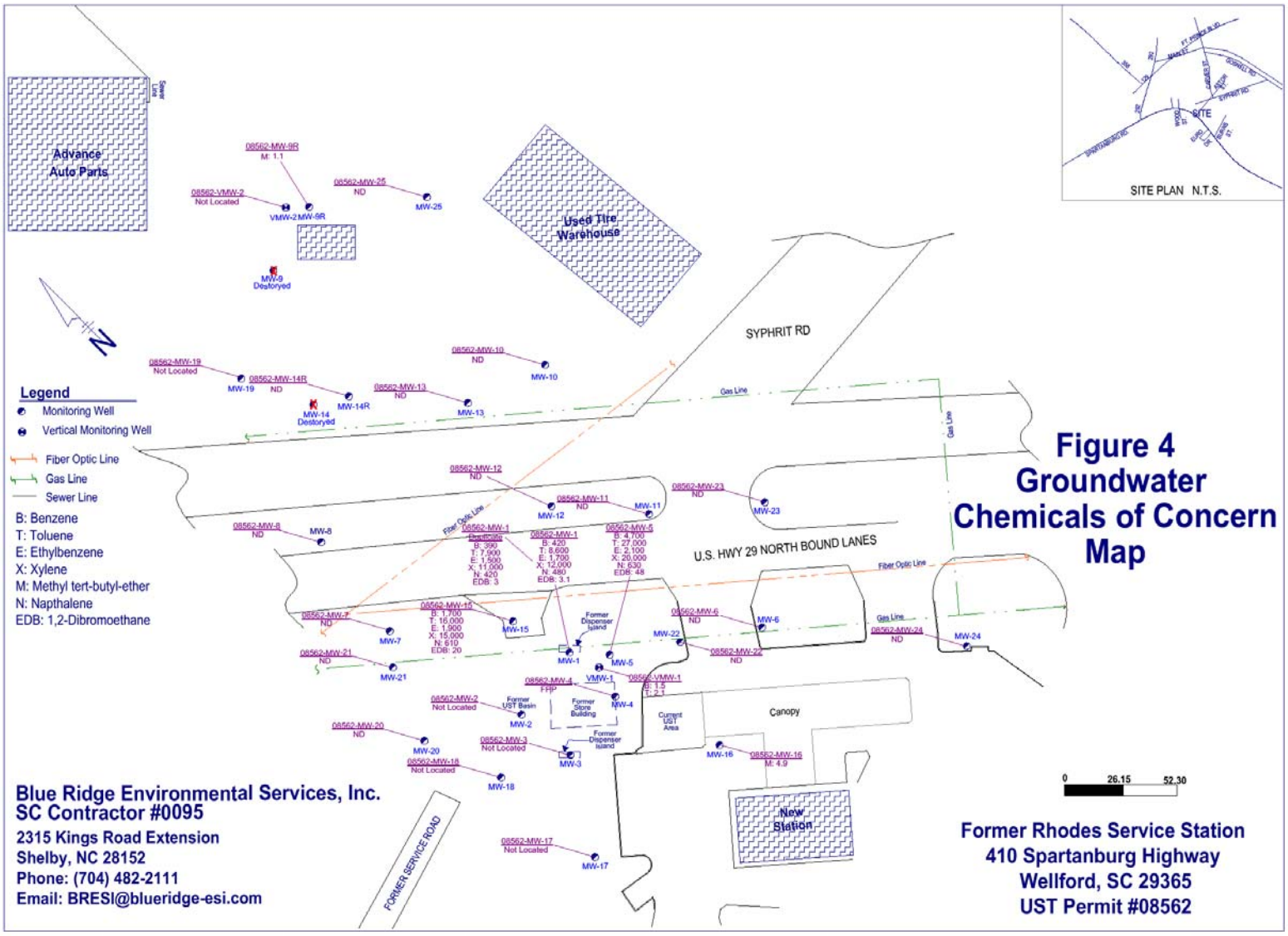


Figure 4 Groundwater Chemicals of Concern Map

Blue Ridge Environmental Services, Inc.
SC Contractor #0095
2315 Kings Road Extension
Shelby, NC 28152
Phone: (704) 482-2111
Email: BRESI@blueridge-esi.com

Former Rhodes Service Station
410 Spartanburg Highway
Wellford, SC 29365
UST Permit #08562

APPENDICES

APPENDIX A

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-1	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.89		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 9.11	1 casing volume (CV = LWC x C) (gals.): 1.45		3 casing volumes (3 x CV) (gals.): 4.37

Purging Data

	Initial	1st Vol.	2nd Vol. DM	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.45	2.0					
Time (military)	11:15	11:26	11:32					
PH (s.u.)	6.71	7.82	6.09					
Specific Conductivity (µS/cm)	0.061	0.065	0.066					
Water Temperature (°C)	18.72	18.25	18.23					
Turbidity (NTU)	41.4	818	415					
Dissolved Oxygen (mg/L)	8.00	7.15	7.87					

Sampling Data

Sampled By: JW/LH	Sampling Time: 10:20	Duplicate: (Y) or N	If yes, Duplicate Time: 10:21

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-2	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT LOCATED						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)		NOT LOCATED						
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harder / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): 16.21	Depth to Groundwater (DGW) (ft.): 16.81		Free Product Thickness (ft.): 0.60
Length of water column (LWC = TWD – DGW) (ft.): 13.19	1 casing volume (CV = LWC x C) (gals.): 2.11		3 casing volumes (3 x CV) (gals.): 6.33

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)			FPP					
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: JW / LH	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-5	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.61		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 14.39	1 casing volume (CV = LWC x C) (gals.): 2.30		3 casing volumes (3 x CV) (gals.): 6.90

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.30	3.0 Dry					
Time (military)	10:45	11:00	11:10					
PH (s.u.)	8.63	6.91	6.55					
Specific Conductivity (µS/cm)	0.080	0.052	0.047					
Water Temperature (°C)	18.71	18.89	18.84					
Turbidity (NTU)	122	997	491					
Dissolved Oxygen (mg/L)	9.20	8.95	8.62					

Sampling Data

Sampled By: JW/LH	Sampling Time: 9:55	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.69		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 14.31	1 casing volume (CV = LWC x C) (gals.): 2.28		3 casing volumes (3 x CV) (gals.): 6.86

Purging Data

	Initial	1st Vol.	2nd Vol. Dry	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.28	2.28					
Time (military)	10:01	10:05	10:08					
PH (s.u.)	4.29	4.59	4.69					
Specific Conductivity (µS/cm)	0.271	0.045	0.044					
Water Temperature (°C)	19.58	19.38	19.26					
Turbidity (NTU)	106	308	135					
Dissolved Oxygen (mg/L)	8.93	8.14	8.34					

Sampling Data

Sampled By: JW / LH	Sampling Time: 9:43	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT LOCATED						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: JW/LH	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-8	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT	LOCATED					
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-9R	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 19.13		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 10.87	1 casing volume (CV = LWC x C) (gals.): 1.73		3 casing volumes (3 x CV) (gals.): 5.21

Purging Data

	Initial	1st Vol.	2nd Vol. DM	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.73	1.73					
Time (military)	11:50	11:58	12:11					
PH (s.u.)	5.89	4.92	5.01					
Specific Conductivity (µS/cm)	0.081	0.074	0.073					
Water Temperature (°C)	19.82	19.59	19.62					
Turbidity (NTU)	412	816	303					
Dissolved Oxygen (mg/L)	8.12	8.50	8.09					

Sampling Data

Sampled By: JW/LH	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signatures: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT LOCATED						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-11	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 7 to 27	Total Well Depth (TWD) (ft.): 27
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 16.94		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 10.06	1 casing volume (CV = LWC x C) (gals.): 1.60		3 casing volumes (3 x CV) (gals.): 4.80

Purging Data

	Initial	1st Vol. Dry	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.40						
Time (military)	14:25	14:30						
PH (s.u.)	6.01	5.69						
Specific Conductivity (µS/cm)	0.069	0.071						
Water Temperature (°C)	19.79	19.82						
Turbidity (NTU)	220	929						
Dissolved Oxygen (mg/L)	7.70	7.29						

Sampling Data

Sampled By:	Sampling Time: 11:05	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 16.34		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 13.66	1 casing volume (CV = LWC x C) (gals.): 2.18		3 casing volumes (3 x CV) (gals.): 6.55

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.18	3.5 Dry					
Time (military)	14:30	14:36	14:43					
PH (s.u.)	6.20	6.31	6.35					
Specific Conductivity (µS/cm)	0.029	0.024	0.027					
Water Temperature (°C)	19.16	19.31	19.34					
Turbidity (NTU)	325	210	63.1					
Dissolved Oxygen (mg/L)	7.51	7.47	7.50					

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT LOCATED						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: JW / LH	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-14R	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 19.90		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 10.10	1 casing volume (CV = LWC x C) (gals.): 1.61		3 casing volumes (3 x CV) (gals.): 4.84

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.60	2.5 Dry					
Time (military)	11:33	11:39	11:42					
PH (s.u.)	6.92	5.81	5.76					
Specific Conductivity (µS/cm)	0.073	0.082	0.085					
Water Temperature (°C)	19.83	19.72	19.75					
Turbidity (NTU)	197	819	316					
Dissolved Oxygen (mg/L)	8.52	8.69	7.91					

Sampling Data

Sampled By: JW / LH	Sampling Time: 11:45	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.79		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 14.21	1 casing volume (CV = LWC x C) (gals.): 2.27		3 casing volumes (3 x CV) (gals.): 6.82

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		SHEEN	NO	READINGS				
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: JW / LH	Sampling Time: 10:23	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 16.33		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 13.67	1 casing volume (CV = LWC x C) (gals.): 2.18		3 casing volumes (3 x CV) (gals.): 6.50

Purging Data

	Initial	1st Vol.	2nd Vol. Dry	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.18	2.18					
Time (military)	10:06	10:09	10:12					
PH (s.u.)	5.98	6.01	6.14					
Specific Conductivity (µS/cm)	0.126	0.111	0.105					
Water Temperature (°C)	18.90	20.01	20.11					
Turbidity (NTU)	231	733	660					
Dissolved Oxygen (mg/L)	8.64	7.91	7.87					

Sampling Data

Sampled By: LH/JW	Sampling Time: 9:51	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-17	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT	LOGGED					
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-18	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT	LOCATED					
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 15 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT	LOCATED					
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	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

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-20	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 16.99		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 13.01	1 casing volume (CV = LWC x C) (gals.): 2.08		3 casing volumes (3 x CV) (gals.): 6.20

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol. DW	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.08	2.08	2.08				
Time (military)	13:31	13:35	13:39	13:42				
PH (s.u.)	5.21	5.16	5.01	4.98				
Specific Conductivity (µS/cm)	0.191	0.175	0.180	0.183				
Water Temperature (°C)	19.35	19.58	19.22	19.19				
Turbidity (NTU)	203	995	901	867				
Dissolved Oxygen (mg/L)	6.16	7.85	8.62	8.87				

Sampling Data

Sampled By: LH/JW	Sampling Time: 10:36	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 17.87		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 12.13	1 casing volume (CV = LWC x C) (gals.): 1.94		3 casing volumes (3 x CV) (gals.): 5.82

Purging Data

	Initial	1st Vol.	2nd Vol. Dry	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.94	1.94					
Time (military)								
PH (s.u.)	5.89	6.01	5.25					
Specific Conductivity (µS/cm)	0.045	0.041	0.039					
Water Temperature (°C)	20.01	19.89	19.39					
Turbidity (NTU)	103	591	175					
Dissolved Oxygen (mg/L)	7.76	7.80	7.72					

Sampling Data

Sampled By: LH / TW	Sampling Time: 10:45	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.83		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 14.17	1 casing volume (CV = LWC x C) (gals.): 2.26		3 casing volumes (3 x CV) (gals.): 6.80

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.26	3.25 Dry					
Time (military)	10:00	10:15	10:30					
PH (s.u.)	5.65	6.72	5.90					
Specific Conductivity (µS/cm)	0.088	0.091	0.092					
Water Temperature (°C)	18.99	20.12	19.04					
Turbidity (NTU)	205	925	312					
Dissolved Oxygen (mg/L)	9.40	7.94	8.13					

Sampling Data

Sampled By: LH/SW	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hayden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-23	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.26		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 14.74	1 casing volume (CV = LWC x C) (gals.): 2.35		3 casing volumes (3 x CV) (gals.): 7.07

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	~~2.35~~	3.25 Dry					
Time (military)	14:51	15:01	15:10					
PH (s.u.)	5.16	5.22	5.05					
Specific Conductivity (µS/cm)	0.051	0.050	0.051					
Water Temperature (°C)	19.47	19.89	20.43					
Turbidity (NTU)	49.7	66.1	519					
Dissolved Oxygen (mg/L)	8.67	7.81	7.49					

Sampling Data

Sampled By: LH/SW	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 15.11		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 14.89	1 casing volume (CV = LWC x C) (gals.): 2.38		3 casing volumes (3 x CV) (gals.): 7.14

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.38	3.0 DRY					
Time (military)	9:30	9:45	9:50					
PH (s.u.)	4.86	4.79	4.84					
Specific Conductivity (µS/cm)	0.0619	0.032	0.022					
Water Temperature (°C)	19.38	19.39	19.41					
Turbidity (NTU)	42.5	716	176					
Dissolved Oxygen (mg/L)	8.87	8.15	8.29					

Sampling Data

Sampled By: LH/JW	Sampling Time: 9:35	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Hawkins / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 18.51		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 11.49	1 casing volume (CV = LWC x C) (gals.): 1.83		3 casing volumes (3 x CV) (gals.): 5.51

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.83						
Time (military)	15:01	15:05						
PH (s.u.)	5.01	4.90						
Specific Conductivity (µS/cm)	0.071	0.061						
Water Temperature (°C)	19.85	19.74						
Turbidity (NTU)	291	345						
Dissolved Oxygen (mg/L)	8.79	8.68						

Sampling Data

Sampled By: LH/JW	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOK6TPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-VMW-1	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 55 to 60	Total Well Depth (TWD) (ft.): 60
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 17.42		Free Product Thickness (ft.): N/A
Length of water column (LWC = TWD – DGW) (ft.): 42.58	1 casing volume (CV = LWC x C) (gals.): 6.80		3 casing volumes (3 x CV) (gals.): 20.40

Purging Data

	Initial	1st Vol. Dry	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	6.8						
Time (military)	10:49	11:03						
PH (s.u.)	6.68	6.36						
Specific Conductivity (µS/cm)	0.429	0.413						
Water Temperature (°C)	18.73	18.75						
Turbidity (NTU)	98.7	307						
Dissolved Oxygen (mg/L)	9.47	7.42						

Sampling Data

Sampled By: LH / JW	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/2015	Site ID #: 08562	Site Name: Former Woods Service Station	Field Personnel: Lee Harden / Jeff White
County: Spartanburg	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TOKGTPHZ	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-VMW-2	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
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 36 to 41	Total Well Depth (TWD) (ft.): 41
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): N/A
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.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		NOT LOCATED						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

APPENDIX B

Report of Analysis

Blue Ridge Environmental Services
2315 Kings Road Ext.
Shelby, NC 28152
Attention: Joe McMurray

Project Name: **Former Rhodes Service Station**

Lot Number: **QK03064**
Date Completed: **11/06/2015**

Kelly M. Nance
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Blue Ridge Environmental Services
Lot Number: QK03064

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.

EDB
The MS/MSD associated with sample -009 had EDB and the surrogate recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

Sample -009 was diluted 50x due to high concentrations of target compounds. As a result, the associated surrogate was recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5X and greater may impact surrogate recoveries.

Sample Summary
Blue Ridge Environmental Services
Lot Number: QK03064

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	08562-MW-1	Aqueous	10/30/2015 1020	11/03/2015
002	08562-MW-1 Duplicate	Aqueous	10/30/2015 1021	11/03/2015
003	08562-MW-5	Aqueous	10/30/2015 0955	11/03/2015
004	08562-MW-6	Aqueous	10/30/2015 0943	11/03/2015
005	08562-MW-9R	Aqueous	10/30/2015 1215	11/03/2015
006	08562-MW-11	Aqueous	10/30/2015 1105	11/03/2015
007	08562-MW-12	Aqueous	10/30/2015 1110	11/03/2015
008	08562-MW-14R	Aqueous	10/30/2015 1145	11/03/2015
009	08562-MW-15	Aqueous	10/30/2015 1023	11/03/2015
010	08562-MW-16	Aqueous	10/30/2015 0951	11/03/2015
011	08562-MW-20	Aqueous	10/30/2015 1036	11/03/2015
012	08562-MW-21	Aqueous	10/30/2015 1045	11/03/2015
013	08562-MW-22	Aqueous	10/30/2015 1011	11/03/2015
014	08562-MW-23	Aqueous	10/30/2015 1115	11/03/2015
015	08562-MW-24	Aqueous	10/30/2015 0935	11/03/2015
016	08562-MW-25	Aqueous	10/30/2015 1128	11/03/2015
017	08562-VMW-1	Aqueous	10/30/2015 1003	11/03/2015
018	08562-Field Blank	Aqueous	10/30/2015 0943	11/03/2015
019	08562-Trip Blank	Aqueous	10/30/2015	11/03/2015

(19 samples)

Executive Summary
Blue Ridge Environmental Services
Lot Number: QK03064

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	08562-MW-1	Aqueous	Benzene	8260B	420		ug/L	5
001	08562-MW-1	Aqueous	Ethylbenzene	8260B	1700		ug/L	5
001	08562-MW-1	Aqueous	Naphthalene	8260B	480		ug/L	5
001	08562-MW-1	Aqueous	Toluene	8260B	8600		ug/L	5
001	08562-MW-1	Aqueous	Xylenes (total)	8260B	12000		ug/L	5
001	08562-MW-1	Aqueous	1,2-Dibromoethane (EDB)	8011	3.1		ug/L	5
002	08562-MW-1 Duplicate	Aqueous	Benzene	8260B	390		ug/L	6
002	08562-MW-1 Duplicate	Aqueous	Ethylbenzene	8260B	1500		ug/L	6
002	08562-MW-1 Duplicate	Aqueous	Naphthalene	8260B	420		ug/L	6
002	08562-MW-1 Duplicate	Aqueous	Toluene	8260B	7900		ug/L	6
002	08562-MW-1 Duplicate	Aqueous	Xylenes (total)	8260B	11000		ug/L	6
002	08562-MW-1 Duplicate	Aqueous	1,2-Dibromoethane (EDB)	8011	3.0		ug/L	6
003	08562-MW-5	Aqueous	Benzene	8260B	4700		ug/L	7
003	08562-MW-5	Aqueous	Ethylbenzene	8260B	2100		ug/L	7
003	08562-MW-5	Aqueous	Naphthalene	8260B	630		ug/L	7
003	08562-MW-5	Aqueous	Toluene	8260B	27000		ug/L	7
003	08562-MW-5	Aqueous	Xylenes (total)	8260B	20000		ug/L	7
003	08562-MW-5	Aqueous	1,2-Dibromoethane (EDB)	8011	48		ug/L	7
005	08562-MW-9R	Aqueous	Methyl tertiary butyl ether	8260B	1.3		ug/L	9
006	08562-MW-11	Aqueous	Benzene	8260B	2.7		ug/L	10
006	08562-MW-11	Aqueous	Methyl tertiary butyl ether	8260B	7.2		ug/L	10
008	08562-MW-14R	Aqueous	Xylenes (total)	8260B	1.2		ug/L	12
008	08562-MW-14R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.025		ug/L	12
009	08562-MW-15	Aqueous	Benzene	8260B	1700		ug/L	13
009	08562-MW-15	Aqueous	Ethylbenzene	8260B	1900		ug/L	13
009	08562-MW-15	Aqueous	Naphthalene	8260B	610		ug/L	13
009	08562-MW-15	Aqueous	Toluene	8260B	16000		ug/L	13
009	08562-MW-15	Aqueous	Xylenes (total)	8260B	15000		ug/L	13
009	08562-MW-15	Aqueous	1,2-Dibromoethane (EDB)	8011	20		ug/L	13
010	08562-MW-16	Aqueous	Methyl tertiary butyl ether	8260B	4.9		ug/L	14
017	08562-VMW-1	Aqueous	Benzene	8260B	1.5		ug/L	21
017	08562-VMW-1	Aqueous	Toluene	8260B	2.1		ug/L	21
017	08562-VMW-1	Aqueous	Xylenes (total)	8260B	1.6		ug/L	21

(33 detections)

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-001**

Description: **08562-MW-1** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1020**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	11/04/2015 1630	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		1000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	ug/L	1
Benzene	**71-43-2**	**8260B**	**420**		**50**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1700**		**50**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**480**		**50**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	ug/L	1
Toluene	**108-88-3**	**8260B**	**8600**		**50**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**12000**		**50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	8011	8011	5	11/06/2015 0944	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**3.1**		**0.097**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		70	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-002**

Description: **08562-MW-1 Duplicate** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1021**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	11/04/2015 1655	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		1000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	ug/L	1
Benzene	**71-43-2**	**8260B**	**390**		**50**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1500**		**50**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**420**		**50**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	ug/L	1
Toluene	**108-88-3**	**8260B**	**7900**		**50**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**11000**		**50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	8011	8011	5	11/06/2015 0954	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**3.0**		**0.099**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		63	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-003**

Description: **08562-MW-5** Matrix: **Aqueous**

Date Sampled: **10/30/2015 0955**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	11/04/2015 1719	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	ug/L	1
Benzene	**71-43-2**	**8260B**	**4700**		**200**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2100**		**200**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		200	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**630**		**200**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	ug/L	1
Toluene	**108-88-3**	**8260B**	**27000**		**200**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**20000**		**200**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	8011	8011	50	11/06/2015 1004	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**48**		**1.0**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-004**

Description: **08562-MW-6** Matrix: **Aqueous**

Date Sampled: **10/30/2015 0943**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/04/2015 1744	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2037	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-005**

Description: **08562-MW-9R** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1215**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/04/2015 1809	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1.3**		**1.0**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2047	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		89	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-006**

Description: **08562-MW-11** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1105**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/04/2015 1834	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	**71-43-2**	**8260B**	**2.7**		**1.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**7.2**		**1.0**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2058	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-007**

Description: **08562-MW-12** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1110**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/04/2015 1858	JM1		88730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2108	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-008**

Description: **08562-MW-14R** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1145**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0029	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2118	MEM	11/05/2015 0913	88794

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.025**		**0.020**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-009**

Description: **08562-MW-15** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1023**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	11/05/2015 0524	ECP		88771
2	5030B	8260B	200	11/05/2015 1743	JM1		88817

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		1000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	ug/L	1
Benzene	**71-43-2**	**8260B**	**1700**		**50**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1900**		**50**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**610**		**50**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	ug/L	1
Toluene	**108-88-3**	**8260B**	**16000**		**200**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**15000**		**50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130		102	70-130
Bromofluorobenzene		95	70-130		97	70-130
Toluene-d8		105	70-130		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	8011	8011	50	11/06/2015 1014	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**20**		**0.99**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-010**

Description: **08562-MW-16** Matrix: **Aqueous**

Date Sampled: **10/30/2015 0951**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0054	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**4.9**		**1.0**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2230	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		68	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-011**

Description: **08562-MW-20** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1036**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0119	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2240	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		80	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-012**

Description: **08562-MW-21** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1045**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0143	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2251	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		98	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-013**

Description: **08562-MW-22** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1011**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0208	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2301	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		89	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-014**

Description: **08562-MW-23** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1115**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0232	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2311	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-015**

Description: **08562-MW-24** Matrix: **Aqueous**

Date Sampled: **10/30/2015 0935**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0257	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2321	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-016**

Description: **08562-MW-25** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1128**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0321	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2332	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-017**

Description: **08562-VMW-1** Matrix: **Aqueous**

Date Sampled: **10/30/2015 1003**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0345	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	**71-43-2**	**8260B**	**1.5**		**1.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	**108-88-3**	**8260B**	**2.1**		**1.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1.6**		**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2342	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		84	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-018**

Description: **08562-Field Blank** Matrix: **Aqueous**

Date Sampled: **10/30/2015 0943**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/04/2015 2340	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/05/2015 2352	MEM	11/05/2015 1311	88829

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** Laboratory ID: **QK03064-019**

Description: **08562-Trip Blank** Matrix: **Aqueous**

Date Sampled: **10/30/2015**

Date Received: **11/03/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2015 0005	ECP		88771

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ88730-001
Batch: 88730
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	11/04/2015 1033
tert-Amyl methyl ether (TAME)	ND		1	10	ug/L	11/04/2015 1033
Benzene	ND		1	1.0	ug/L	11/04/2015 1033
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	11/04/2015 1033
1,2-Dichloroethane	ND		1	1.0	ug/L	11/04/2015 1033
Diisopropyl ether (IPE)	ND		1	1.0	ug/L	11/04/2015 1033
3,3-Dimethyl-1-butanol	ND		1	20	ug/L	11/04/2015 1033
Ethanol	ND		1	100	ug/L	11/04/2015 1033
Ethylbenzene	ND		1	1.0	ug/L	11/04/2015 1033
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	11/04/2015 1033
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	ug/L	11/04/2015 1033
Naphthalene	ND		1	1.0	ug/L	11/04/2015 1033
tert-butyl alcohol (TBA)	ND		1	20	ug/L	11/04/2015 1033
Toluene	ND		1	1.0	ug/L	11/04/2015 1033
Xylenes (total)	ND		1	1.0	ug/L	11/04/2015 1033

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ88730-002
Batch: 88730
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	113	70-130	11/04/2015 0935
tert-Amyl methyl ether (TAME)	50	55		1	110	70-130	11/04/2015 0935
Benzene	50	54		1	108	70-130	11/04/2015 0935
tert-Butyl formate (TBF)	250	280		1	112	70-130	11/04/2015 0935
1,2-Dichloroethane	50	54		1	109	70-130	11/04/2015 0935
Diisopropyl ether (IPE)	50	49		1	98	70-130	11/04/2015 0935
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	11/04/2015 0935
Ethanol	5000	5600		1	112	60-140	11/04/2015 0935
Ethylbenzene	50	50		1	100	70-130	11/04/2015 0935
Ethyl-tert-butyl ether (ETBE)	50	58		1	117	70-130	11/04/2015 0935
Methyl tertiary butyl ether (MTBE)	50	56		1	111	70-130	11/04/2015 0935

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ88730-002
Batch: 88730
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	49		1	99	70-130	11/04/2015 0935
tert-butyl alcohol (TBA)	1000	1100		1	114	70-130	11/04/2015 0935
Toluene	50	50		1	99	70-130	11/04/2015 0935
Xylenes (total)	100	100		1	100	70-130	11/04/2015 0935

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ88771-001
Batch: 88771
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	11/04/2015 2209
tert-Amyl methyl ether (TAME)	ND		1	10	ug/L	11/04/2015 2209
Benzene	ND		1	1.0	ug/L	11/04/2015 2209
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	11/04/2015 2209
1,2-Dichloroethane	ND		1	1.0	ug/L	11/04/2015 2209
Diisopropyl ether (IPE)	ND		1	1.0	ug/L	11/04/2015 2209
3,3-Dimethyl-1-butanol	ND		1	20	ug/L	11/04/2015 2209
Ethanol	ND		1	100	ug/L	11/04/2015 2209
Ethylbenzene	ND		1	1.0	ug/L	11/04/2015 2209
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	11/04/2015 2209
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	ug/L	11/04/2015 2209
Naphthalene	ND		1	1.0	ug/L	11/04/2015 2209
tert-butyl alcohol (TBA)	ND		1	20	ug/L	11/04/2015 2209
Toluene	ND		1	1.0	ug/L	11/04/2015 2209
Xylenes (total)	ND		1	1.0	ug/L	11/04/2015 2209

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ88771-002
Batch: 88771
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	114	70-130	11/04/2015 2120
tert-Amyl methyl ether (TAME)	50	57		1	113	70-130	11/04/2015 2120
Benzene	50	57		1	113	70-130	11/04/2015 2120
tert-Butyl formate (TBF)	250	290		1	115	70-130	11/04/2015 2120
1,2-Dichloroethane	50	58		1	115	70-130	11/04/2015 2120
Diisopropyl ether (IPE)	50	51		1	103	70-130	11/04/2015 2120
3,3-Dimethyl-1-butanol	1000	1000		1	100	70-130	11/04/2015 2120
Ethanol	5000	5500		1	109	60-140	11/04/2015 2120
Ethylbenzene	50	51		1	103	70-130	11/04/2015 2120
Ethyl-tert-butyl ether (ETBE)	50	60		1	120	70-130	11/04/2015 2120
Methyl tertiary butyl ether (MTBE)	50	57		1	115	70-130	11/04/2015 2120
Naphthalene	50	49		1	99	70-130	11/04/2015 2120
tert-butyl alcohol (TBA)	1000	1200		1	115	70-130	11/04/2015 2120
Toluene	50	51		1	102	70-130	11/04/2015 2120
Xylenes (total)	100	100		1	103	70-130	11/04/2015 2120

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS - MS

Sample ID: QK03064-009MS
Batch: 88771
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	55000		50	109	70-130	11/05/2015 0703
tert-Amyl methyl ether (TAME)	ND	2500	2800		50	112	70-130	11/05/2015 0703
Benzene	1700	2500	4500		50	113	72-127	11/05/2015 0703
tert-Butyl formate (TBF)	ND	13000	11000		50	89	70-130	11/05/2015 0703
1,2-Dichloroethane	ND	2500	2900		50	116	59-143	11/05/2015 0703
Diisopropyl ether (IPE)	ND	2500	2600		50	105	70-130	11/05/2015 0703
3,3-Dimethyl-1-butanol	ND	50000	47000		50	94	70-130	11/05/2015 0703
Ethanol	ND	250000	270000		50	106	70-130	11/05/2015 0703
Ethylbenzene	1900	2500	4300		50	94	79-132	11/05/2015 0703
Ethyl-tert-butyl ether (ETBE)	ND	2500	3000		50	120	70-130	11/05/2015 0703
Methyl tertiary butyl ether (MTBE)	ND	2500	2900		50	117	60-140	11/05/2015 0703

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: QK03064-009MS
Batch: 88771
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	610	2500	2800		50	87	62-136	11/05/2015 0703
tert-butyl alcohol (TBA)	ND	50000	58000		50	115	70-130	11/05/2015 0703
Toluene	16000	2500	19000	E	50	79	75-125	11/05/2015 0703
Xylenes (total)	15000	5000	19000		50	85	70-130	11/05/2015 0703

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		106	70-130

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QK03064-009MD
Batch: 88771
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	59000		50	118	7.5	70-130	20	11/05/2015 0727
tert-Amyl methyl ether (TAME)	ND	2500	3000		50	119	6.3	70-130	20	11/05/2015 0727
Benzene	1700	2500	4600		50	118	2.7	72-127	20	11/05/2015 0727
tert-Butyl formate (TBF)	ND	13000	12000		50	94	5.9	70-130	20	11/05/2015 0727
1,2-Dichloroethane	ND	2500	3000		50	122	4.4	59-143	20	11/05/2015 0727
Diisopropyl ether (IPE)	ND	2500	2800		50	112	6.4	70-130	20	11/05/2015 0727
3,3-Dimethyl-1-butanol	ND	50000	51000		50	102	7.3	70-130	20	11/05/2015 0727
Ethanol	ND	250000	280000		50	112	5.7	70-130	20	11/05/2015 0727
Ethylbenzene	1900	2500	4500		50	102	4.5	79-132	20	11/05/2015 0727
Ethyl-tert-butyl ether (ETBE)	ND	2500	3200		50	129	7.0	70-130	20	11/05/2015 0727
Methyl tertiary butyl ether (MTBE)	ND	2500	3100		50	124	6.0	60-140	20	11/05/2015 0727
Naphthalene	610	2500	2800		50	87	0.26	62-136	20	11/05/2015 0727
tert-butyl alcohol (TBA)	ND	50000	62000		50	124	7.3	70-130	20	11/05/2015 0727
Toluene	16000	2500	19000	E	50	79	0.082	75-125	20	11/05/2015 0727
Xylenes (total)	15000	5000	20000		50	94	2.2	70-130	20	11/05/2015 0727

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ88817-001
Batch: 88817
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Toluene	ND		1	1.0	ug/L	11/05/2015 1012

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		108	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ88817-002
Batch: 88817
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	49		1	98	70-130	11/05/2015 0913

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: QQ88794-001
Batch: 88794
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/05/2015 913

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	11/05/2015 1721

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		103	57-137

EDB & DBCP by Microextraction - LCS

Sample ID: QQ88794-002
Batch: 88794
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/05/2015 913

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.25		1	100	60-140	11/05/2015 1731

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		106	57-137

EDB & DBCP by Microextraction - MB

Sample ID: QQ88829-001
Batch: 88829
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/05/2015 1311

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	11/05/2015 2139

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		125	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: QQ88829-002 **Matrix:** Aqueous
Batch: 88829 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 11/05/2015 1311

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.24		1	98	60-140	11/05/2015 2149

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		101	57-137

EDB & DBCP by Microextraction - MS

Sample ID: QK03064-009MS **Matrix:** Aqueous
Batch: 88829 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 11/05/2015 1311

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	20	0.25	21	N	50	481	60-140	11/06/2015 1025

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane	N	0.00	57-137

EDB & DBCP by Microextraction - MSD

Sample ID: QK03064-009MD **Matrix:** Aqueous
Batch: 88829 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 11/05/2015 1311

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	20	0.25	22	N	50	737	3.0	60-140	20	11/06/2015 1035

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Blue Ridge Environmental Services, Inc.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
FAX 704-482-4335
E-mail: BRESI@BlueRidge-ESI.com

CHAIN OF CUSTODY

(South Carolina)

PROJECT NAME/LOCATION: **Former Rhodes Service Station**

STF CODE:

P.O.#: 18493

LAB: Shealy

GROUNDWATER INCIDENT #:

SAMPLERS: **Lee Harden/ Jeff White**

PROJECT MANAGER: **Ken Pimienta**

QK03064

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX, Naph, 1,2 DCA, MTBE & 5 OXYs (8260B)	EDB (8011)				REMARKS
08562-MW-1	10/30/2015	10:20		X	Groundwater Sample	HCl	6	X	X				
08562-MW-1 Duplicate	10/30/2015	10:21		X	Groundwater Sample	HCl	6	X	X				
08562-MW-5	10/30/2015	9:55		X	Groundwater Sample	HCl	6	X	X				
08562-MW-6	10/30/2015	9:43		X	Groundwater Sample	HCl	6	X	X				
08562-MW-9R	10/30/2015	12:15		X	Groundwater Sample	HCl	6	X	X				
08562-MW-11	10/30/2015	11:05		X	Groundwater Sample	HCl	6	X	X				
08562-MW-12	10/30/2015	11:10		X	Groundwater Sample	HCl	6	X	X				
08562-MW-14R	10/30/2015	11:45		X	Groundwater Sample	HCl	6	X	X				
08562-MW-15	10/30/2015	10:23		X	Groundwater Sample	HCl	6	X	X				
08562-MW-16	10/30/2015	9:51		X	Groundwater Sample	HCl	6	X	X				
08562-MW-20	10/30/2015	10:36		X	Groundwater Sample	HCl	6	X	X				
08562-MW-21	10/30/2015	10:45		X	Groundwater Sample	HCl	6	X	X				
08562-MW-22	10/30/2015	10:11		X	Groundwater Sample	HCl	6	X	X				
08562-MW-23	10/30/2015	11:15		X	Groundwater Sample	HCl	6	X	X				

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
	11/3/15	1128		11/3/15	1128
	11/3/15	1515		11.3.15	1515
	11.3.15	1617		11/3/15	1617

T=3.6°C

SHEALY ENVIRONMENTAL SERVICES, INC.

Blue Ridge Environmental Services, Inc.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
FAX 704-482-4335
E-mail: BRESI@BlueRidge-ESI.com

CHAIN OF CUSTODY

(South Carolina)

PROJECT NAME/LOCATION: Former Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 18493

LAB: Shealy

QK03064

SAMPLERS: Lee Harden/ Jeff White

PROJECT MANAGER: Ken Pinicata

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX, Naph, 1,2 DCA, MTBE & 5 OXYS (8260B)	EDB (8011)	REMARKS
08562-MW-24	10/30/2015	9:35		X	Groundwater Sample	HCl	6	X	X	
08562-MW-25	10/30/2015	11:28		X	Groundwater Sample	HCl	6	X	X	
08562-VMW-1	10/30/2015	10:03		X	Groundwater Sample	HCl	6	X	X	
08562-Field Blank	10/30/2015	9:43		X	Groundwater Sample	HCl	6	X	X	
08562-Trip Blank	----------	----------		X	Groundwater Sample	HCl	2	X		

	DATE:	TIME:		DATE:	TIME:
RELINQUISHED BY: (SIGN.)	11/3/15	1128	RECEIVED BY: (SIGN.)	11/3/15	1128
RELINQUISHED BY: (SIGN.)	11/3/15	1515	RECEIVED BY: (SIGN.)	11.3.15	195
RELINQUISHED BY: (SIGN.)	11.3.15	1617	RECEIVED BY: (SIGN.)	11/3/15	1617

T= 3.6°C

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME001.8C-02

Page 1 of 1
Replaces Date: 09/23/15
Effective Date: 10/23/15

Sample Receipt Checklist (SRC)

Client: Blue Ridge Env. Cooler Inspected by/date: JSH/ 11/3/15 Lot #: QK03064

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
pH strip ID: NA Cl strip ID: NA			
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:			
/3.6/3.6 °C / / °C / / °C / / °C			
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C			
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☐	No ☑		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☐	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?
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_2SO_4, HNO3, HCl, NaOH) using SR # _____.			
Sample(s) _____ were received with bubbles >6 mm in diameter.			
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)			
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: JSH Verified by: _____ Date: 11/3/15			

Comments:

APPENDIX C

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CESQG

Manifest Document No. 05299

2. Page 1 of 1

3. Generator's Name and Mailing Address

Rhode Island Station
110 Corporate Way Suite
Cranford RI

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

A. State Transporter's ID

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

F. Facility's Phone 508 455 9111

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT hazardous Regulated material for over the road transport	1	TP	54	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Job # 11556 PO # 15500

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 Month	Day	Year
Jeffrey White		11	6	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Spring White		11	10	15

FACILITY

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 Month	Day	Year
David Wing		11	10	15

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APPENDIX D

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

Former Rhodes Service Station
UST Permit Number: 08562

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

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2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

Former Rhodes Service Station
UST Permit Number: 08562

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		

Explanation for missing and incomplete information?

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MR ROBERT F TURNER
ODOM OIL COMPANY
850 HAYNE STREET
SPARTANBURG SC 29301

FEB 0 5 2016

Re: **Aggressive Fluid Vapor Recovery/Gauging Directive**
Rhodes Service Station (former), 410 Spartanburg Highway South (U.S. Hwy. 29), Wellford, SC
UST Permit #08562, Cost Agreement #51616
Release reported January 24, 1990
Groundwater Monitoring Report received December 2, 2015
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank Management Division (UST Division) of the South Carolina of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Blue Ridge Environmental Services, Inc. as your contractor. Based on the results of the referenced report, the UST Division has determined the next necessary scope of work is Aggressive Fluid Vapor Recovery (AFVR) to remove free-phase petroleum (FPP) product from groundwater and reduce concentrations of petroleum chemicals of concern.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, two 48-hour AFVR events as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 3.0 should be implemented. **Please note that AFVR procedures have been updated**. The first event should be conducted on monitoring wells MW-4 and MW-5, and the second event on monitoring wells MW-1 and MW-15. The stingers shall be set at the water table interface then slowly lowered to target depths of 19 feet below top of casing in wells MW-4, MW-5, and MW-15, and to 20 feet in MW-1. Please strive to reach the target depths within the first eight (8) hours of the event and then periodically readjust the stingers to the intervals with the highest vapor readings while maintaining dewatering of the petroleum smear zone. The goal is to achieve the highest possible vapor recovery while simultaneously dewatering the petroleum smear zone. The AFVR events should be performed consecutively. Off-gas treatment will be necessary. Approximately 30 days after the second AFVR event, monitoring well MW-4 should be gauged. A copy of the Agency QAPP Revision 3.0 for the UST Division is available online at: http://www.scdhec.gov/environment/docs/QAPPRevision3.0.pdf.

Please notify me at RiversMS@dhec.sc.gov as soon as the first AFVR event start date has been scheduled.

Cost Agreement #51616 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. AFVR activities may proceed immediately upon your receipt of this letter.

Costs for a site reconnaissance have been approved. Objectives of the site reconnaissance are to verify the location of the facility, locate and identify monitoring wells targeted for AFVR, and to verify the presence of measurable (0.01') FPP in the target wells. Results of the site reconnaissance shall be provided to the UST Project Manager via e-mail. The results should include gauging data for the AFVR target wells, a proposed starting date for the first AFVR event, and any pertinent site information.

The AFVR / Gauging Report should be submitted within ninety (90) days from the date of this letter. 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.

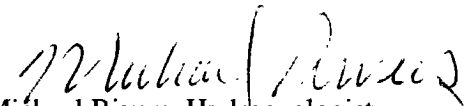
Blue Ridge Environmental Services, Inc. may submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may be submitted for this scope of work. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within one hundred twenty (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 UST 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 UST Division 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.

The UST Division grants pre-approval for transportation of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this directive, please reference **UST Permit #08562 and Cost Agreement #51616.** If you have any questions concerning this site, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,



Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. Joseph W. McMurray, P.G., Blue Ridge Environmental Services, Inc., 2315 Kings Road Extension, Shelby, NC 28152 (w/ enc.)
Technical File (w/ enc.)

MR/AFVR01 29.16

Approved Cost Agreement 51616

Facility. 08562 RHODES SERVICE STATION

RIVERSMS

PO Number

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		B1 PERSONNEL	1.0000	$423 000	423 00
10 SAMPLE COLLECTION					
		E1 GAUGE WELL ONLY	1.0000	$7 000	7 00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$23,400 250	2,808 03
23 EFR					
		A3 48 HOUR EVENT	2 0000	$6,265 000	12,530.00
		C3 OFF GAS TREATMENT 48 HOUR	2.0000	$327.000	654.00
		D SITE RECONNAISSANCE	1.0000	$203.250	203 25
		F1 EFFLUENT DISPOSAL	20,000 0000	$0.440	8,800.00
		G AFVR EQUIPMENT MOB	2.0000	$391.500	783.00
			Total Amount		26,208.28

Document Receipt Information

☒ Hard Copy ☒ CD ☐ Email

Date Received 5-2-14

Permit Number 08562

Project Manager Mike Rogers

Name of Contractor Blue Realse

UST Certification Number _____

Docket Number 15 tot

Scanned _____

AFVR

AFVR Report

Rhodes Service Station (Former)
410 Spartanburg Highway South
Lyman, South Carolina 29365
UST Permit Number 08562

Prepared for:
Robert F. Turner
655 Perrin Drive
Spartanburg, South Carolina 29307

April 28, 2016

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

ENGINEERING • ENVIRONMENTAL • GEOLOGY

Prepared by:
Blue Ridge Environmental Services, Inc.
2315 Kings Rd. Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
SC Contractor # 0095
Email: BRESI@BlueRidge-ESI.com

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Email: BRESI@BlueRidge-ESI.com

April 28, 2016

Mr. Michael Rivers
SCDHEC
Corrective Action Section
UST Management Division
2600 Bull Street
Columbia, SC 29201

Subject: **Aggressive Fluid Vapor Recovery Events**
Rhodes Service Station (Former)
410 Spartanburg Highway South
Lyman, South Carolina 29365
UST Permit # 08562

Dear Mr. Rivers:

The purpose of this correspondence is to present the results of the aggressive fluid vapor recovery (AFVR) events performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 51616, per correspondence from your office dated February 5, 2016. The location of the monitoring wells is illustrated on Figure 2.

Introduction

1. UST Facility Name: Rhodes Service Station (Former)

   UST Permit Number: 08562

   Address: 410 Spartanburg Highway South, Lyman, SC 29365

   Phone Number: (864) 949-6800

2. UST Owner: Robert F. Turner

   Address: 655 Perrin Drive, Spartanburg, South Carolina 29307

   Phone Number: N/A

3. UST Operator: Rhodes Service Station (Former)

   Address: 410 Spartanburg Highway South, Lyman, SC 29365

   Phone Number: (864) 949-6800

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(F) 704.482.4335
SC Contractor No. 0095
Email: BRESI@BlueRidge-ESI.com

4. Property Owner Name: Service Oil Company

   Address: 410 Spartanburg Highway South, Lyman, SC 29365

   Phone Number: N/A

5. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.

   Address: 2315 Kings Road Ext., Shelby, NC 28152

   SCDHEC Certified Contractor Number: 0095

Facility History

Two 4,000 gallon and two 2,000 gallon single walled steel USTs were previously located at the site and were reportedly removed from the site on November 11, 1911. A release was reported to SCDHEC on January 24, 1990. The release was caused by a leaking UST System with an unknown quantity of product released. The former UST system is described in detail on the table below titled Former USTs Located Onsite.

UST's Located Onsite

UST #	Product	Date Installed (Year)	Currently in use (Yes or No)	Tank Size	If not in use, Date Removed	Removed (Yes or No)
1	Gasoline	Unknown	No	2,000	11/11/1911	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes
4	Gasoline	Unknown	No	4,000	11/11/1911	Yes
1	Gasoline	Unknown	No	2,000	11/11/1911	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes

Regional Geology and Hydrogeology

The site is located in the Inner Piedmont within the Piedmont Physiographic Province. The Inner Piedmont Belt is characterized by upper amphibolite facies granite gneiss, mica schist, migmatites, and granotoid rocks with low to moderately dipping recumbent folds. The igneous and metamorphic rocks are weathered to saprolite and near the surface to residual soil. Depths

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SC Contractor No. 0095
Email: BRESI@BlueRidge-ESI.com

and thicknesses of soil and saprolite vary widely, from less than one to hundreds of feet thick; generally it is thin on ridges and thicker on slopes and broad uplands.

The Piedmont groundwater system is a two-part system consisting of regolith, composed of a granular layer of soil and saprolite and thin, discontinuous alluvial deposits, overlying fractured, crystalline bedrock. Hydraulically, the regolith functions as the reservoir of the system and the bedrock fractures as pipelines that transmit water from the regolith to natural discharge areas. In detail, the regolith consists of a porous and permeable soil zone that grades downward into saprolite, which in turn, grades into unweathered rock. In saprolite, water flows through interstitial pore space while in unweathered rocks, flow is via fractures. Groundwater in the Piedmont occurs in a shallow saturated zone in saprolite and also more commonly in a much thicker bedrock "aquifer". Saturated saprolite is hydraulically connected in most areas to the underlying bedrock.

Results and Discussion

A 48-hour AFVR event was conducted on monitor wells 08562-MW-4 and 08562-MW-5 on April 21, 2016 through April 23, 2016. A second 48-hour AFVR event was conducted on monitor wells 08562-MW-1 and 08562-MW-15 on April 23, 2016 through April 25, 2016. The AFVR events were conducted by A&D Environmental Services, LLC. (A&D). The tables below provides the duration of the event, volume of fluids recovered during the AFVR event, the total weight of free product recovered as vapor during the event and the amount of calculated gallons of fluids recovered. Please note that no free product was observed in the reservoir prior to fluid disposal.

Total Volume of Fluids Recovered AFVR #1
March 21, 2016 through March 23, 2016

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
08562-MW-4 & 08562-MW-5	4/21/16 to 4/23/16	48	N/O	4,612	3.02

N/O – Not observed

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Total Volume of Fluids Recovered AFVR #2
March 23, 2016 through March 25, 2016

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
08562-MW-1 & 08562-MW-15	4/23/16 to 4/25/16	48	N/O	2,074	0.70

N/O – Not observed

Please refer to the appendixes for the AFVR Field Data Sheet, AFVR DATA Sheet – Emissions Data & Calculation and copies of the disposal manifests with weight tickets from the AFVR events conducted. The following tables provide the pre-recovery and post recovery depth to water and depth to product levels in specific on-site monitoring wells. The product/water levels were determined using an interface probe and post product/water levels were obtained approximately 20 minutes after the AFVR events were completed. In addition, depth to water and depth to product levels in the monitoring wells included during the AFVR events were obtained 30 days following the completion of the last AFVR event conducted on March 25, 2016.

Pre/Post Event Water Levels AFVR #1
March 21, 2016 through March 23, 2016

Well ID	Initial Stinger Depth (ft.)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (ft.)
08562-MW-4	12.5	12.72	14.02	1.30	N/A	13.56	N/A
08562-MW-5	12.5	N/A	12.19	N/A	N/A	12.98	N/A

N/A = Not Applicable

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SC Contractor No. 0095
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Pre/Post Event Water Levels AFVR #2
March 23, 2016 through March 25, 2016

Well ID	Initial Stinger Depth (ft.)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (ft.)
08562-MW-1	13	N/A	13.45	N/A	N/A	14.82	N/A
08562-MW-15	13	N/A	12.72	N/A	N/A	13.68	N/A

N/A = Not Applicable

30-Day Post AFVR Water Levels
April 25, 2016

Well ID	Post-Event		
	DTP (ft.)	DTW (ft.)	Thickness (ft.)
08562-MW-1	N/A	13.51	N/A
08562-MW-4	N/A	14.01	N/A
08562-MW-5	N/A	13.39	N/A
08562-MW-15	N/A	13.37	N/A

N/A = Not Applicable

Blue Ridge recommends sampling all monitoring wells associated with the release to verify the effectiveness of the AFVR events conducted. If you have any questions regarding this matter, please do not hesitate to contact us at (704) 482-2111.
Sincerely,

Blue Ridge Environmental Services, Inc.

Kenneth A. Pimienta
Geologist/Project Manager

cc: Robert Turner

JOSEPH WILLIAM McMURRAY REGISTERED No. 2111 PROFESSIONAL GEOLOGIST SOUTH CAROLINA

Joseph W. McMurray, P.G.
S.C. Registration #2111

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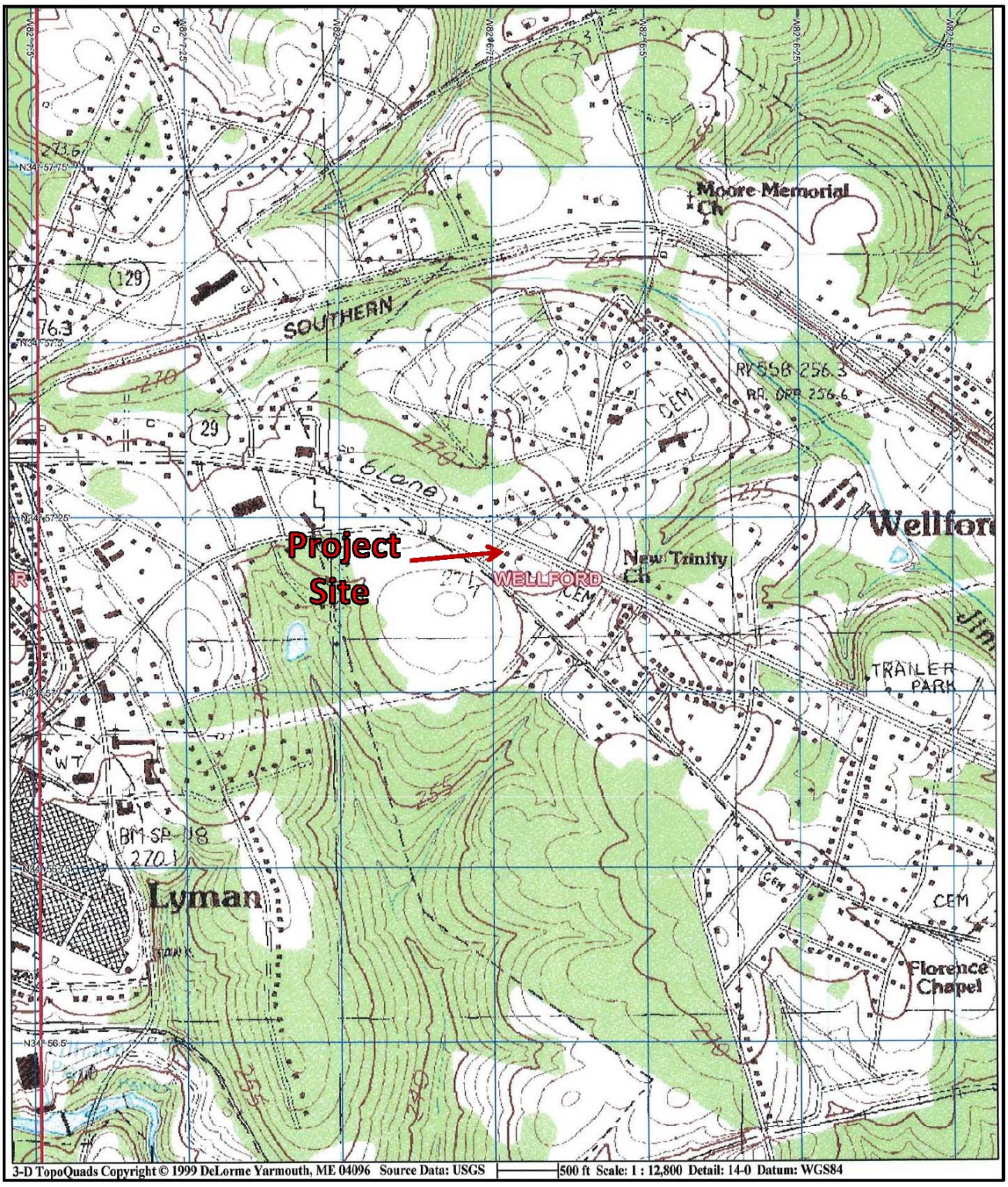
Enclosures

Figures
Figure 1 - Topographic Map
Figure 2 - Site Map

Appendices
Appendix A - AFVR Field Data Sheet #1
Appendix B - AFVR Field Data Sheet #2
Appendix C - AFVR Data Sheet #1 – Emissions Data & Calculation
Appendix D - AFVR Data Sheet #2 – Emissions Data & Calculation
Appendix E - Disposal Manifest & Weight Tickets
Appendix F - Contractor Checklist

FIGURES



TOPOGRAPHIC MAP	0 1,111 ft.	North
BLUE RIDGE ENVIRONMENTAL SERVICES, INC. ENGINEERING • ENVIRONMENTAL • GEOLOGY 2315 Kings Road Ext. Shelby, North Carolina 28152 (704) 482-2111 Fax (704) 482-4335	Client:	Robert F. Turner
	Project:	Rhodes Service Station (Former)
	Location:	410 S0partanburg Highway South
		Lyman, South Carolina 29365
	Source:	Delorme Topoquads
	Date: 4/26/16	Approximate Scale: 1" = 1,111' Figure 1

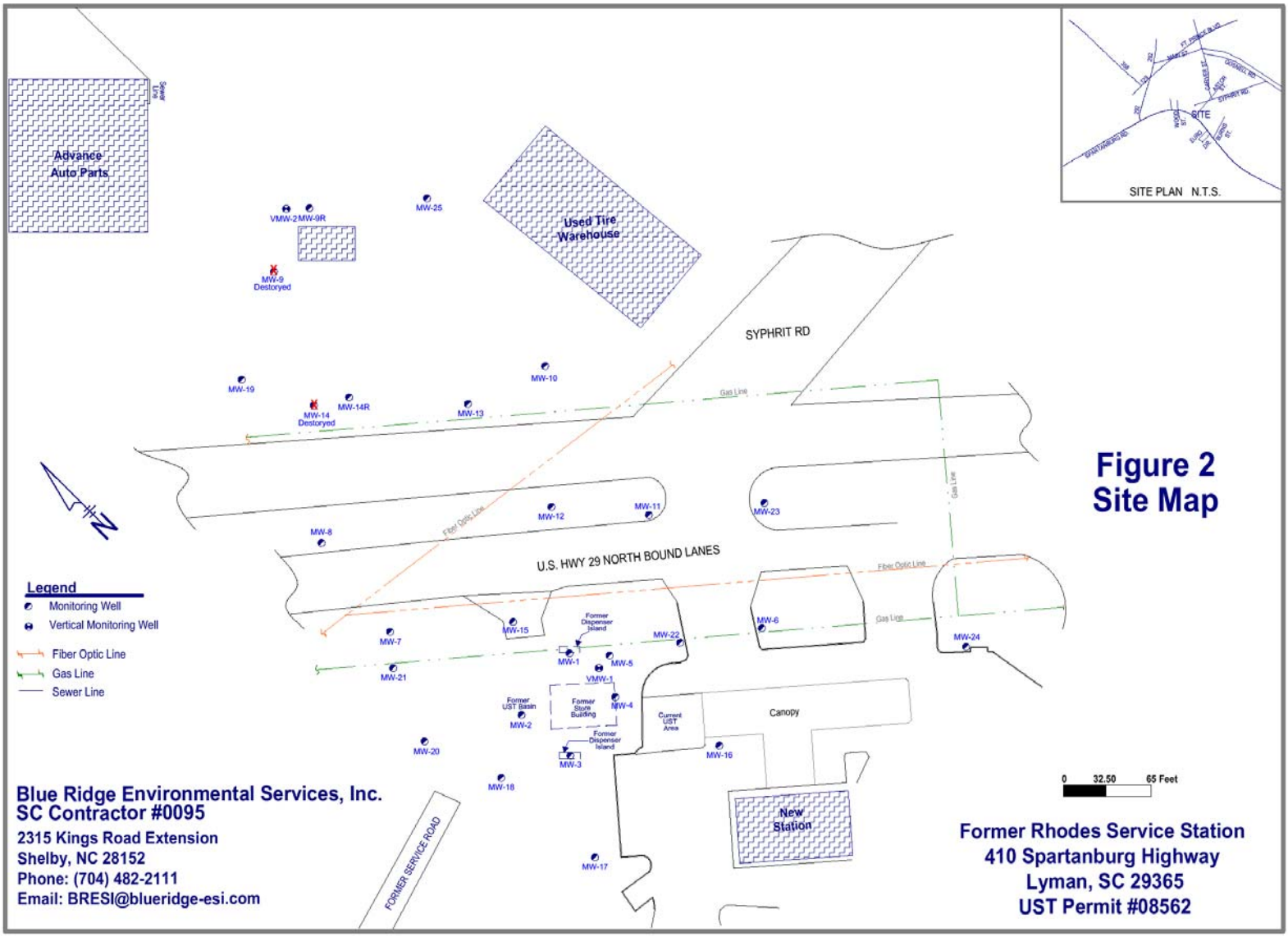


Figure 2
Site Map

Blue Ridge Environmental Services, Inc.
SC Contractor #0095
2315 Kings Road Extension
Shelby, NC 28152
Phone: (704) 482-2111
Email: BRESI@blueridge-esi.com

Former Rhodes Service Station
410 Spartanburg Highway
Lyman, SC 29365
UST Permit #08562

APPENDICES

APPENDIX A

AFVR Field Data Sheet #1

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC	03/21/16 - 03/23/16	Job # 217733
Technician:	MMPE Operator: Green		

Time (hh:mm)		Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Influence On Surrounding Wells Depth to Water Below Top of Casing (ft)							
	Stinger Depth	MW-4	MW-5	MW-	MW-	MW-	MW-	MW-				MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-	MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-
03/21/16 - 1100	12.5	-18	-18																								
1130	13	-18	-18																								
1200	13.5	-18	-18																								
1230	14	-18	-18									0.00	0.00							12.58	20.58						
1300	14.5	-18	-18																								
1330	15.5	-18	-18																								
1400	16	-18	-18																								
1430	16.5	-18	-18									0.00	0.00							12.58	20.57						
1500	17	-18	-18																								
1530	18	-18	-18																								
1600	18.5	-18	-18																								
1630	19	-18	-18									0.00	-1.50							12.62	20.57						
1700	19	-18	-18																								
1730	19	-18	-18																								
1800	19	-18	-18																								
1830	19	-18	-18									0.00	0.00							12.62	20.57						
1930	19	-18	-18																								
2030	19	-18	-18									0.00	0.00							12.63	20.56						
2130	19	-18	-18																								
2230	19	-18	-18									0.00	0.00							12.65	20.56						
2330	19	-18	-18																								
2400	19	-18	-18									0.00	0.00							12.65	20.55						
03/22/16 - 0800	15	-18	-18									0.00	0.00							12.71	20.50						
0900	15	-18	-18																								
1000	15	-18	-18									0.00	-1.50							12.71	20.50						
1100	15	-18	-18																								
1300	15	-18	-18									0.00	-3.50							12.73	20.50						
1500	17	-18	-18																								

AFVR Field Data Sheet #1

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC	03/21/16 - 03/23/16	Job # 217733
Technician:	MMPE Operator: Green		

Time (hh:mm)		Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Influence On Surrounding Wells Depth to Water Below Top of Casing (ft)							
	Stinger Depth	MW-4	MW-5	MW-	MW-	MW-	MW-	MW-				MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-	MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-
1700	17	-18	-18									0.00	-3.00							12.78	20.46						
1900	17	-18	-18																								
2100	17	-18	-18									0.00	-3.00							12.74	20.45						
2300	17	-18	-18																								
2400	17	-18	-18									0.00	0.00							12.74	20.45						
03/23/16 - 0800	19	-18	-18									0.00	0.00							12.79	20.44						

AFVR Field Data Sheet #1

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC			03/21/16 - 03/23/16	Job # 217733
Technician:	MMPE Operator: Green				

Time (hh:mm)	Stinger Depth	Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Influence On Surrounding Wells Depth to Water Below Top of Casing (ft)							
		MW-4	MW-5	MW-	MW-	MW-	MW-	MW-				MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-	MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-
1000	19	-18	-18									0.00	0.00							12.79	20.42						
1100	19											0.00	0.00							12.79	20.42						

Extraction Wells	MW-4	MW-5	MW-	MW-	MW-	MW-	MW-	MW-	Weather:
Depth Below Top of Casing (ft)	14.02	12.19							Depth to groundwater pre-AFVR/EFR
	13.56	12.98							Depth to groundwater 20 minutes post-AFVR/EFR
	14.01	13.39							Depth to groundwater 30 Days post-AFVR/EFR
	12.72	0.00							Depth to free product pre-AFVR/EFR
	0.00	0.00							Depth to free product 20 minutes post-AFVR/EFR
	0.00	0.00							Depth to free product 30 Days post-AFVR/EFR

APPENDIX B

AFVR Field Data Sheet #2

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC	03/23/16 - 03/25/16	Job # 217733
Technician:	MMPE Operator: Green		

Time (hh:mm)		Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Influence On Surrounding Wells Depth to Water Below Top of Casing (ft)							
	Stinger Depth	MW-1	MW-15	MW-	MW-	MW-	MW-	MW-				MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-	MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-
03/23/16 - 1100	13	-18	-18																								
1130	13.5	-18	-18																								
1200	14	-18	-18																								
1230	14.5	-18	-18									0.00	0.00							12.79	20.42						
1300	15	-18	-18																								
1330	15.5	-18	-18																								
1400	16	-18	-18																								
1430	17	-18	-18									-2.50	-1.50							12.70	20.39						
1500	17.5	-18	-18																								
1530	18	-18	-18																								
1600	19	-18	-18																								
1630	19	-18	-18									-2.50	-1.50							12.70	20.39						
1700	19	-18	-18																								
1730	19	-18	-18																								
1800	19	-18	-18																								
1830	19	-18	-18									-2.00	-1.50							12.71	20.39						
1930	19	-18	-18																								
2030	19	-18	-18									0.00	-1.00							12.70	20.38						
2130	19	-18	-18																								
2230	19	-18	-18									0.00	0.00							12.70	20.38						
2330	19	-18	-18																								
2400	19	-18	-18									0.00	0.00							12.70	20.38						
03/24/16 - 0800	19	-18	-18									0.00	0.00							12.67	20.33						
0900	16	-18	-18																								
1000	16	-18	-18									0.00	0.00							12.67	20.33						
1100	16	-18	-18																								
1300	16	-18	-18									-2.00	-1.50							12.64	20.33						
1500	16	-18	-18									-1.50	-0.50														

AFVR Field Data Sheet #2

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC	03/23/16 - 03/25/16	Job # 217733
Technician:	MMPE Operator: Green		

Time (hh:mm)		Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Influence On Surrounding Wells Depth to Water Below Top of Casing (ft)							
	Stinger Depth	MW-1	MW-15	MW-	MW-	MW-	MW-	MW-				MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-	MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-
1700	16	-18	-18									0.00	0.00							12.63	20.32						
1900	16	-18	-18																								
2100	16	-18	-18									0.00	0.00							12.55	20.32						
2300	16	-18	-18																								
2400	16	-18	-18									0.00	0.00							12.54	20.32						
03/25/16 - 0800	16	-18	-18									0.00	0.00							12.62	20.28						

AFVR Field Data Sheet #2

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC			03/23/16 - 03/25/16	Job # 217733
Technician:	MMPE Operator: Green				

Time (hh:mm)	Stinger Depth	Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Influence On Surrounding Wells Depth to Water Below Top of Casing (ft)							
		MW-1	MW-15	MW-	MW-	MW-	MW-	MW-				MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-	MW-22	VMW-1	MW-	MW-	MW-	MW-	MW-	MW-
1000	16	-18	-18									0.00	0.00							12.62	20.27						
1100	16	-18	-18									0.00	0.00							12.62	20.27						

Extraction Wells	MW-1	MW-15	MW-	MW-	MW-	MW-	MW-	MW-	Weather:
Depth Below Top of Casing (ft)	13.45	12.72							Depth to groundwater pre-AFVR/EFR
	14.82	13.68							Depth to groundwater 20 minutes post-AFVR/EFR
	13.51	13.37							Depth to groundwater 30 Days post-AFVR/EFR
	0.00	0.00							Depth to free product pre-AFVR/EFR
	0.00	0.00							Depth to free product 20 minutes post-AFVR/EFR
	0.00	0.00							Depth to free product 30 Days post-AFVR/EFR

APPENDIX C

AFVR Data Sheet #1 - Emissions Data & Calculation

Client: Blue Ridge Environmental		Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC									03/21/16-03/23/16		Job# 217733	
		Meters: MiniRae 2000-10.6 eV PID, TESTO 445-Vane, %RH, Temp									Response Factor: 1		Stack Dia(in): 4	
Time (h:m)	Delta Time (min)	Pre PPMmea (PPMv)	Post PPMmea (PPMv)	Temp (^{0} F)	RH (%)	Flow (acfm)	Specific Humidity (lbW / lbDA)	Water Vapor (vol %)	Flow Qstd (dscfm)	Dry Conc (PPMv)	Response Factor	Corrected Conc (PPMv)	Mass Conc (mg/m^3)	Mass Conc (lb/ft^3)	Mass Removed (lb)
03/21/16 - 1100	30	538.4	0.0	240.0	10.0	70	0.100	0.138	46	625	1	625	3321	0.000207	0.28
1130	30	540.5	0.0	265.0	10.9	70	0.100	0.138	44	627	1	627	3335	0.000208	0.28
1200	30	402.0	0.0	300.0	10.3	70	0.100	0.138	42	466	1	466	2480	0.000155	0.20
1230	30	567.0	0.0	300.0	9.4	70	0.100	0.138	42	658	1	658	3498	0.000218	0.28
1300	30	543.0	0.0	300.0	9.9	70	0.100	0.138	42	630	1	630	3350	0.000209	0.26
1330	30	556.0	0.0	300.0	10.0	70	0.100	0.138	42	645	1	645	3430	0.000214	0.27
1400	30	571.0	0.0	300.0	9.5	70	0.100	0.138	42	662	1	662	3523	0.000220	0.28
1430	30	489.0	0.0	300.0	8.8	70	0.100	0.138	42	567	1	567	3017	0.000188	0.24
1500	30	473.0	0.0	300.0	9.0	70	0.100	0.138	42	549	1	549	2918	0.000182	0.23
1530	30	451.0	0.0	300.0	8.3	70	0.100	0.138	42	523	1	523	2783	0.000174	0.22
1600	30	477.0	0.0	300.0	7.8	70	0.100	0.138	42	553	1	553	2943	0.000184	0.23
1630	30	466.0	0.0	300.0	8.1	70	0.100	0.138	42	541	1	541	2875	0.000179	0.23
1700	30	497.0	0.0	300.0	8.2	70	0.100	0.138	42	577	1	577	3066	0.000191	0.24
1730	30	368.0	0.0	300.0	8.3	70	0.100	0.138	42	427	1	427	2271	0.000142	0.18
1800	30	402.0	0.0	300.0	8.5	70	0.100	0.138	42	466	1	466	2480	0.000155	0.20
1830	30	381.0	0.0	300.0	8.1	70	0.100	0.138	42	442	1	442	2351	0.000147	0.19
1930	30	396.0	0.0	300.0	8.8	70	0.100	0.138	42	459	1	459	2443	0.000153	0.19
2030	60	412.0	0.0	300.0	8.2	70	0.100	0.138	42	478	1	478	2542	0.000159	0.40
2130	60	460.0	0.0	300.0	8.3	70	0.100	0.138	42	534	1	534	2838	0.000177	0.45
2230	60	375.0	0.0	300.0	9.0	70	0.100	0.138	42	435	1	435	2314	0.000144	0.36
2330	60	408.0	0.0	300.0	9.6	70	0.100	0.138	42	473	1	473	2517	0.000157	0.40
2400	30	410.0	0.0	300.0	8.9	70	0.100	0.138	42	476	1	476	2530	0.000158	0.20
03/22/16 - 0800	480	400.0	0.0	300.0	8.4	70	0.100	0.138	42	464	1	464	2468	0.000154	3.11
0900	60	371.0	0.0	300.0	8.2	70	0.100	0.138	42	430	1	430	2289	0.000143	0.36
1000	60	395.0	0.0	300.0	8.1	70	0.100	0.138	42	458	1	458	2437	0.000152	0.38
1100	60	401.0	0.0	300.0	7.9	70	0.100	0.138	42	465	1	465	2474	0.000154	0.39
1300	120	398.0	0.0	300.0	8.3	70	0.100	0.138	42	462	1	462	2456	0.000153	0.77
1500	120	399.0	0.0	300.0	8.0	70	0.100	0.138	42	463	1	463	2462	0.000154	0.78
1700	120	354.0	0.0	300.0	7.5	70	0.100	0.138	42	411	1	411	2184	0.000136	0.69
1900	120	396.0	0.0	300.0	9.3	70	0.100	0.138	42	459	1	459	2443	0.000153	0.77
2100	120	406.0	0.0	300.0	8.3	70	0.100	0.138	42	471	1	471	2505	0.000156	0.79
2300	120	402.0	0.0	300.0	9.9	70	0.100	0.138	42	466	1	466	2480	0.000155	0.78
2400	60	401.0	0.0	300.0	9.8	70	0.100	0.138	42	465	1	465	2474	0.000154	0.39
03/23/16 - 0800	480	391.0	0.0	300.0	8.2	70	0.100	0.138	42	454	1	454	2412	0.000151	3.04

AFVR Data Sheet #1 - Emissions Data & Calculation

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC	03/21/16-03/23/16	Job# 217733
	Meters: MiniRae 2000-10.6 eV PID, TESTO 445-Vane, %RH, Temp	Response Factor: 1	Stack Dia(in): 4

Time (h:m)	Delta Time (min)	Pre PPMmea (PPMv)	Post PPMmea (PPMv)	Temp (^{0} F)	RH (%)	Flow (acfm)	Specific Humidity (lbW / lbDA)	Water Vapor (vol %)	Flow Qstd (dscfm)	Dry Conc (PPMv)	Response Factor	Corrected Conc (PPMv)	Mass Conc (mg/m^3)	Mass Conc (lb/ft^3)	Mass Removed (lb)
03/21/16 - 1100	30	538.4	0.0	240.0	10.0	70	0.100	0.138	46	625	1	625	3321	0.000207	0.28
1000	120	395.0	0.0	300.0	8.1	70	0.100	0.138	42	458	1	458	2437	0.000152	0.77
1100	60	368.0	0.0	300.0	7.9	70	0.100	0.138	42	427	1	427	2271	0.000142	0.36

Total emissions, pounds	18.89
Total emissions, gallons (6.25 lb/gal)	3.02

PPMmea = Measured VOC concentration from OVA/TVA (PPMv)

Velocity = Measured velocity (fpm)

Temp = Measured temperature (^{0}F)

RH = Measured relative humidity (%)

Flow = Actual Flow Volume (cfm)

Specific Humidity = data from psychrometric chart at measured Temp and RH (lb water/lb dry air) (lbW / lbDA)

Water Vapor = % water vapor on a volume basis = (Specific Humidity / 18 lb-mole H2O) / [(1 / 28.84 lb-mole dry air) + (Specific Humidity / 18 lb-mole H2O)]

Qstd = Flow volume on a dry basis at a standard temperature of 70^0 F = (1-Water Vapor) (Flow) [530^{0}R / (Temp +460)]

Dry Conc = PPMv VOC on a dry basis = [PPMmea / (1-Water Vapor)]

Response Factor of OVA/TVA meter; 1 if response factor is unknown

Corrected Conc = Dry Conc PPMv VOC corrected by Response Factor = (Dry Conc) (Response Factor)

Mass Conc (mg/m^3) = Mass concentration VOC as gasoline dry basis at standard temperature = (Corrected Conc) (128 mg/mg-mole / 24.07 m3/mg-mole)

Mass Conc (lb/ft^3) = [Mass Conc (mg/m3)] [(6.243 * 10^{-8})(lb/ft3)/(mg/m3)]

Mass Removed (lb) = [Mass Conc (lb/ft3)] [Qstd (dscfm)] [Time Interval (min)]

APPENDIX D

AFVR Data Sheet #2 - Emissions Data & Calculation

Client: Blue Ridge Environmental		Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC									03/23/16-03/25/16		Job# 217733	
		Meters: MiniRae 2000-10.6 eV PID, TESTO 445-Vane, %RH, Temp									Response Factor: 1		Stack Dia(in): 4	
Time (h:m)	Delta Time (min)	Pre PPMmea (PPMv)	Post PPMmea (PPMv)	Temp (^{0} F)	RH (%)	Flow (acfm)	Specific Humidity (lbW / lbDA)	Water Vapor (vol %)	Flow Qstd (dscfm)	Dry Conc (PPMv)	Response Factor	Corrected Conc (PPMv)	Mass Conc (mg/m^3)	Mass Conc (lb/ft^3)	Mass Removed (lb)
03/23/16 - 1100	30	119.0	0.0	300.0	8.4	70	0.100	0.138	42	138	1	138	734	0.000046	0.06
1130	30	111.0	0.0	300.0	8.1	70	0.100	0.138	42	129	1	129	685	0.000043	0.05
1200	30	81.3	0.0	300.0	8.6	70	0.100	0.138	42	94	1	94	502	0.000031	0.04
1230	30	100.0	0.0	300.0	8.3	70	0.100	0.138	42	116	1	116	617	0.000039	0.05
1300	30	105.0	0.0	300.0	8.1	70	0.100	0.138	42	122	1	122	648	0.000040	0.05
1330	30	68.4	0.0	300.0	9.1	70	0.100	0.138	42	79	1	79	422	0.000026	0.03
1400	30	71.3	0.0	300.0	8.5	70	0.100	0.138	42	83	1	83	440	0.000027	0.03
1430	30	101.0	0.0	300.0	8.1	70	0.100	0.138	42	117	1	117	623	0.000039	0.05
1500	30	115.0	0.0	300.0	7.9	70	0.100	0.138	42	133	1	133	710	0.000044	0.06
1530	30	131.0	0.0	300.0	8.3	70	0.100	0.138	42	152	1	152	808	0.000050	0.06
1600	30	163.0	0.0	300.0	8.8	70	0.100	0.138	42	189	1	189	1006	0.000063	0.08
1630	30	152.0	0.0	300.0	9.1	70	0.100	0.138	42	176	1	176	938	0.000059	0.07
1700	30	182.0	0.0	300.0	8.9	70	0.100	0.138	42	211	1	211	1123	0.000070	0.09
1730	30	197.0	0.0	300.0	8.6	70	0.100	0.138	42	229	1	229	1215	0.000076	0.10
1800	30	165.0	0.0	300.0	9.4	70	0.100	0.138	42	191	1	191	1018	0.000064	0.08
1830	30	169.0	0.0	300.0	9.5	70	0.100	0.138	42	196	1	196	1043	0.000065	0.08
1930	60	163.0	0.0	300.0	8.8	70	0.100	0.138	42	189	1	189	1006	0.000063	0.16
2030	60	148.0	0.0	300.0	8.7	70	0.100	0.138	42	172	1	172	913	0.000057	0.14
2130	60	145.0	0.0	300.0	10.2	70	0.100	0.138	42	168	1	168	895	0.000056	0.14
2230	60	130.0	0.0	300.0	9.9	70	0.100	0.138	42	151	1	151	802	0.000050	0.13
2330	60	137.0	0.0	300.0	9.4	70	0.100	0.138	42	159	1	159	845	0.000053	0.13
2400	30	113.0	0.0	300.0	8.8	70	0.100	0.138	42	131	1	131	697	0.000044	0.05
03/24/16 - 0800	480	78.8	0.0	300.0	8.2	70	0.100	0.138	42	91	1	91	486	0.000030	0.61
0900	60	75.3	0.0	300.0	8.1	70	0.100	0.138	42	87	1	87	465	0.000029	0.07
1000	60	77.5	0.0	300.0	7.9	70	0.100	0.138	42	90	1	90	478	0.000030	0.08
1100	60	96.5	0.0	300.0	8.3	70	0.100	0.138	42	112	1	112	595	0.000037	0.09
1300	120	107.0	0.0	300.0	9.5	70	0.100	0.138	42	124	1	124	660	0.000041	0.21
1500	120	99.5	0.0	300.0	8.6	70	0.100	0.138	42	115	1	115	614	0.000038	0.19
1700	120	73.8	0.0	300.0	8.4	70	0.100	0.138	42	86	1	86	455	0.000028	0.14
1900	120	89.1	0.0	300.0	8.3	70	0.100	0.138	42	103	1	103	550	0.000034	0.17
2100	120	78.3	0.0	300.0	9.1	70	0.100	0.138	42	91	1	91	483	0.000030	0.15
2300	120	75.9	0.0	300.0	9.5	70	0.100	0.138	42	88	1	88	468	0.000029	0.15
2400	60	74.7	0.0	300.0	9.6	70	0.100	0.138	42	87	1	87	461	0.000029	0.07
03/25/16 - 0800	480	72.1	0.0	300.0	8.8	70	0.100	0.138	42	84	1	84	445	0.000028	0.56

AFVR Data Sheet #2 - Emissions Data & Calculation

Client: Blue Ridge Environmental	Site: Rhodes Service/Citgo, 410 Spartanburg Hwy, Wellford, SC	03/23/16-03/25/16	Job# 217733
	Meters: MiniRae 2000-10.6 eV PID, TESTO 445-Vane, %RH, Temp	Response Factor: 1	Stack Dia(in): 4

Time (h:m)	Delta Time (min)	Pre PPMmea (PPMv)	Post PPMmea (PPMv)	Temp (^{0} F)	RH (%)	Flow (acfm)	Specific Humidity (lbW / lbDA)	Water Vapor (vol %)	Flow Qstd (dscfm)	Dry Conc (PPMv)	Response Factor	Corrected Conc (PPMv)	Mass Conc (mg/m^3)	Mass Conc (lb/ft^3)	Mass Removed (lb)
03/23/16 - 1100	30	119.0	0.0	300.0	8.4	70	0.100	0.138	42	138	1	138	734	0.000046	0.06
1000	120	69.8	0.0	300.0	8.7	70	0.100	0.138	42	81	1	81	431	0.000027	0.14
1100	60	68.6	0.0	300.0	8.7	70	0.100	0.138	42	80	1	80	423	0.000026	0.07

Total emissions, pounds	4.40
Total emissions, gallons (6.25 lb/gal)	0.70

PPMmea = Measured VOC concentration from OVA/TVA (PPMv)

Velocity = Measured velocity (fpm)

Temp = Measured temperature (^{0}F)

RH = Measured relative humidity (%)

Flow = Actual Flow Volume (cfm)

Specific Humidity = data from psychrometric chart at measured Temp and RH (lb water/lb dry air) (lbW / lbDA)

Water Vapor = % water vapor on a volume basis = (Specific Humidity / 18 lb-mole H2O) / [(1 / 28.84 lb-mole dry air) + (Specific Humidity / 18 lb-mole H2O)]

Qstd = Flow volume on a dry basis at a standard temperature of 70^0 F = (1-Water Vapor) (Flow) [530^{0}R / (Temp +460)]

Dry Conc = PPMv VOC on a dry basis = [PPMmea / (1-Water Vapor)]

Response Factor of OVA/TVA meter; 1 if response factor is unknown

Corrected Conc = Dry Conc PPMv VOC corrected by Response Factor = (Dry Conc) (Response Factor)

Mass Conc (mg/m^3) = Mass concentration VOC as gasoline dry basis at standard temperature = (Corrected Conc) (128 mg/mg-mole / 24.07 m3/mg-mole)

Mass Conc (lb/ft^3) = [Mass Conc (mg/m3)] [(6.243 * 10^{-8})(lb/ft3)/(mg/m3)]

Mass Removed (lb) = [Mass Conc (lb/ft3)] [Qstd (dscfm)] [Time Interval (min)]

APPENDIX E

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
		(803) 957-9175	35524-1

GENERATOR

5. Generator's Name and Mailing Address
A&D ENVIRONMENTAL SERVICES (SC), LLC
1741 CALKS FERRY ROAD, LEXINGTON, SC 29073

Generator's Site Address (if different than mailing address)
FORMER RHODES SERVICE STATION
410 SPARTANBURG HWY SO, WELLFORD, SC

Generator's Phone: 803-957-9175

8. Transporter 1 Company Name: A&D ENVIRONMENTAL SERVICES (SC), LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
VLS
306 SOUTH MAIN STREET, MAULDIN, SC 29662
Facility's Phone: 864-967-8853 — U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS, NON-REGULATED MATERIAL PETROLEUM CONTACT WATER	1	TT	4812	G	
2.				4612	G	per wash ticket
3.						
4.						

13. Special Handling Instructions and Additional Information
PROFILE #17475
A&D JOB #217733

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] ALLEN — Signature — Month 3 Day 23 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Travis Bucas — Signature — Month 3 Day 23 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature — Month 3 Day 23 Year 16

DESIGNATED FACILITY'S COPY

SCALE TICKET

03/25/2016 08:39AM

RcPD I.D. number 3

Gross 75660 lb

Tare(T) 37200 lb

* Preset weight

Net 38460 lb

8.34

4612 gallons

Scale Company: LCS

Weighed By: _____

Carrier: _____

Customer: _____

PO/BOL/Manifest 35524-1

Tractor Number: _____

Trailer Number: _____

Driver Signature: _____

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
		(803) 957-9175	35524-2

GENERATOR

5. Generator's Name and Mailing Address
A&D ENVIRONMENTAL SERVICES (SC), LLC
1741 CALKS FERRY ROAD, LEXINGTON, SC 29073
Generator's Phone: 803-957-9175

Generator's Site Address (if different than mailing address)
FORMER RHODES SERVICE STATION
410 SPARTANBURG HWY SO, WELLFORD, SC

6. Transporter 1 Company Name: A&D ENVIRONMENTAL SERVICES (SC), LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
VLS
306 SOUTH MAIN STREET, MAULDIN, SC 29662
Facility's Phone: 864-962-9953
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS, NON-REGULATED MATERIAL PETROLEUM CONTACT WATER	1	TT	2300	G	
2.				2074	G	per weight ticket
3.						
4.						

13. Special Handling Instructions and Additional Information
PROFILE #17475
A&D JOB #217733

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: BILL AIKINS — Signature — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alan Gilstrap — Signature — Month: 3 / Day: 25 / Year: 16

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: David White — Signature — Month: 3 / Day: 25 / Year: 16

DESIGNATED FACILITY'S COPY

48898

SCALE TICKET

03/25/2016 11:40AM
RcPD I.D. number 4
Gross 50060 lb
Tare(T) 32760 lb
* Preset weight
Net 17300 lb

8.34

20745

Scale Company: US

Weighed By: [signature]

Carrier: A+Q

Customer: A+Q

PO/BOL/Manifest

Tractor Number: S-201

Trailer Number: P-314

Driver Signature: [signature]

WHITE - Driver YELLOW - Driver CARD - Scale

APPENDIX F

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

Rhodes Service Station (Former)
UST Permit Number: 08562

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

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

Rhodes Service Station (Former)
UST Permit Number: 08562

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		

Explanation for missing and incomplete information?

dhec
Healthy People Healthy Communities

JUN 06 2017

UST 16 week DOCKETING

MR ROBERT F TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

Re: **Site-Specific Work Plan Request for Groundwater Sampling Event**
Rhodes Service Station (Former), 410 Spartanburg Highway S , Wellford , SC
UST Permit #08562
Release reported January 24, 1990
Spartanburg County

Dear Mr Turner:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has determined the next scope of work to be completed at the referenced site is a comprehensive groundwater sampling event.

To monitor what risk the referenced release may pose to public health and the environment, and in accordance with South Carolina Underground Storage Tank Control Regulations (R 61-92 § 280.65), sampling of all existing monitoring wells plus all water supply wells and surface water bodies within 1,000 feet of this facility as outlined in the most recent revision of the UST Management Division Quality Assurance Program Plan and your contractor's Annual Contractor Quality Assurance Plan (ACQAP) is necessary. The groundwater sampling event must be conducted in compliance with all applicable regulations once the Site-Specific Work Plan (SSWP) is approved. **Your contractor must complete and submit the SSWP within thirty (30) days of the date of this letter. Please note that approval from DHEC must be issued before work begins**

On all correspondence regarding this site, please reference UST Permit #08562 and Rhodes Service Station site. Should you have any questions, please contact me by phone (803) 898-0671, email dunnra@dhec sc gov, or fax (803) 898-0673.

Sincerely,

Robert A Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Blue Ridge Environmental Services, 2315 Kings Road EXT, Shelby, NC 28152
Technical File

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Robert Dunn (SCDHEC Project Manager)
From: Ken Pimienta (Contractor Project Manager)
Contractor: Blue Ridge Environmental Services, Inc. UST Contractor Certification Number: 095

Facility Name: Rhodes Service Station (Former) UST Permit #: 08562
Facility Address: 410 Spartanburg Highway South, Welford, SC 29365
Responsible Party: Odom Oil Company (Mr. Robert Turner) Phone:
RP Address: 655 Perrin Drive, Spartanburg, SC 29307
Property Owner (if different):
Property Owner Address:
Current Use of Property: Store is currently a Gasoline Station (Citgo) with an adjoining Restaurant (Subway).

UST JUN 29 2017 PROGRAM

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

UST 17 DOCKETING

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

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ 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	____ Water Supply Wells	____ Air	2 Field Blank
27 Monitoring Wells	____ Surface Water	2 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: N/A 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: N/A 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 #: 08562 Facility Name: Rhodes Service Station (Former)

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Days Field Work Completion: 35 Days
Report Submittal: 60 Days # 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: 350 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

Monitoring wells 08562-MW-1 through 08562-MW-25, 08562-VMW-1 and 08562-VMW-2 will be "Purge" sampled. Please note that the last sampling event at the site was 10/30/15 and during the sampling event, several monitoring wells were unable to be located. It is probable that the wells will still be missing. Blue Ridge personnel will make adequate attempts to locate all monitoring wells. Monitoring well 08562-MW-4 has historically contained FPP, thus accounting for the gauge well only sample. If 080562-MW-4 contains no measurable FPP, it will be sampled in accordance.

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: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

N/A 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
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: Rhodes Service Station (Former)

UST Permit #: 08562 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan Preparation**					
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
2. A1. **Receptor Survey ***		each	$551.00		$0.00
3. **Survey (500 ft x 500 ft)**					
A1. Comprehensive Survey		each	$1,040.00		$0.00
B. Subsurface Geophysical Survey					
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
4. **Mob/Demob**					
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
5. A1. **Soil Borings (hand auger)***		foot	$5.00		$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***					
AA. Standard		per foot	$15.00		$0.00
C1. Fractured Rock		per foot	$20.20		$0.00
7. A1. **Soil Leachability Model**		each	$60.00		$0.00
8. **Abandonment (per foot)***					
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
9. **Well installation (per foot)***					
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
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
A1. Groundwater Purge	27	per well/receptor	$60.00		$1,620.00
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	2	per well/receptor	$28.00		$56.00
E1. Gauge Well only	1	per well	$7.00		$7.00
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
11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	33	per sample	$122.00		$4,026.00
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	31	per sample	$45.20		$1,401.20
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
11. Analyses-Drinking Water					
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
11. **Analyses-Soil**					
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
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
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
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	350	gallon	$0.56		$196.00
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
18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
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
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
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
25. **Well Repair**					
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
I1. 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
Report Prep & Project Management	12%	percent	$8,326.80		$999.22
TOTAL					$9,326.02

DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary

TOPOGRAPHIC MAP	0 1,111 ft.	North ▲	
BLUE RIDGE ENVIRONMENTAL SERVICES, INC. ENGINEERING • ENVIRONMENTAL • GEOLOGY		Client:	Robert F. Turner
2315 Kings Road Ext. Shelby, North Carolina 28152 (704) 482-2111 Fax (704) 482-4335		Project:	Rhodes Service Station (Former)
		Location:	410 SOpartanburg Highway South
			Lyman, South Carolina 29365
		Source:	Delorme Topoquads
		Date: 6/26/17	Approximate Scale: 1" = 1,111' Figure 1

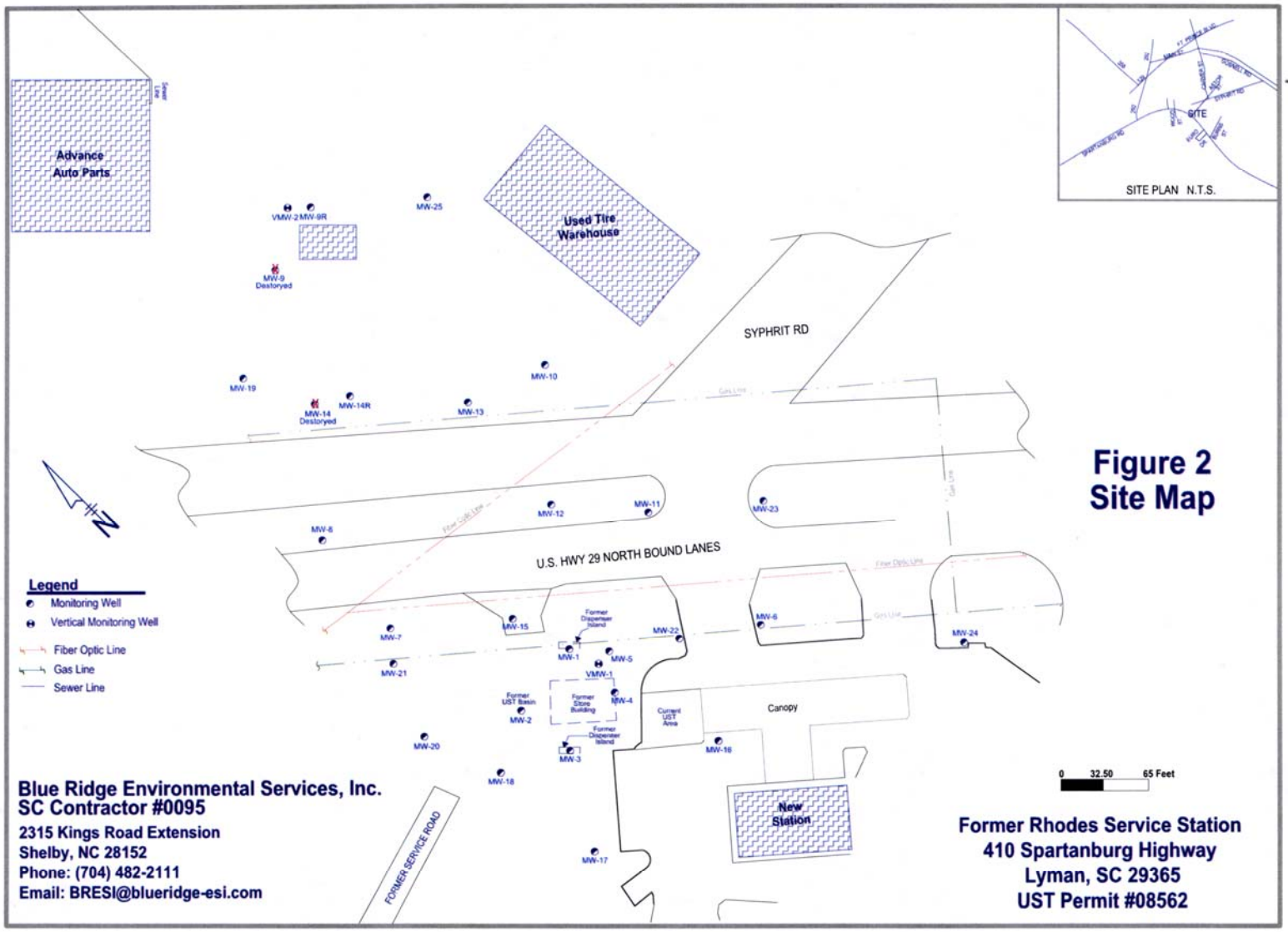


Figure 2
Site Map

Blue Ridge Environmental Services, Inc.
SC Contractor #0095
2315 Kings Road Extension
Shelby, NC 28152
Phone: (704) 482-2111
Email: BRESI@blueridge-esi.com

Former Rhodes Service Station
410 Spartanburg Highway
Lyman, SC 29365
UST Permit #08562

dhec
Healthy People. Healthy Communities.

JUL 2 6 2017

UST DOCKETING 18

MR ROBERT F TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

Re: Groundwater Sampling Approval
Rhodes Service Station (Former), 410 Spartanburg Highway S., Wellford , SC
UST Permit #08562; Cost Agreement #55168
Release reported January 24, 1990
Site-Specific Work Plan received June 29, 2017
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approves the Site-Specific Work Plan (SSWP) submitted on your behalf by Blue Ridge Environmental Services. Groundwater sampling at the site should begin immediately upon receipt of this letter. Cost Agreement #55168 has been approved for the amount shown on the enclosed cost agreement.

All scopes of work must be conducted in accordance with Blue Ridge Environmental Services' Annual Contractor Quality Assurance Plan (ACQAP) and in compliance with all applicable South Carolina regulations. Weekly status reports of the project should be provided by e-mail to dunnra@dhec.sc.gov. If any quality assurance problems arise, you must contact me within 24 hours via telephone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to DHEC.

The Monitoring Report and Invoice should be submitted within 60 days from the date of this correspondence. Interim invoices may not be submitted for this scope of work. 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.

Blue Ridge Environmental Services may submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. The SUPERB Act (S.C. Code Ann. § 44-2-110(4) and 44-2-130) states no costs will be allowed unless prior approval is obtained from DHEC. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC to be paid.

The UST Management 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 UST Management 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. 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.

If unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of RBSL, the data cannot be used. In those cases, the UST Management 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. 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 RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site.**

DHEC should be notified a minimum of 4 days prior to any environmental work being conducted so that DHEC personnel may attend. On all correspondence regarding this site, please reference UST Permit #08562 and Rhodes Service Station site. Should you have any questions, please contact me by phone (803) 898-0671, email dunnra@dhec.sc.gov, or fax (803) 898-0673.

Sincerely,

Robert A. Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: Approved Cost Agreement #55168

Cc: Blue Ridge Environmental Services, 2315 Kings Road EXT, Shelby, NC 28152 (w/ Enc)
Service Oil Company, PO Box 3255, Spartanburg, SC 29304 (w/o Enc)
Technical File (w/ Enc)

Approved Cost Agreement 55168

Facility: 08562 RHODES SERVICE STATION
DUNNRA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
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)	27.0000	$60.000	1,620.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2.0000	$28.000	56.00
		E1	GAUGE WELL ONLY	1.0000	$7.000	7.00
		H1	FIELD BLANK	1.0000	$24.600	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	33.0000	$122.000	4,026.00
		F1	EDB BY 8011	31.0000	$45.200	1,401.20
17 DISPOSAL						
		AA	WASTEWATER	350.0000	$0.560	196.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$8,326.800	999.22
				Total Amount		9,326.02

Document Receipt Information

☒ Hard Copy ☒ CD ☐ Email

Date Received 9-15-17

Permit Number 08562

Project Manager Robert Dunn

Name of Contractor

UST Certification Number Blue Ridge En

Docket Number 19Tech

Scanned

GWM

Groundwater Monitoring Report

UST Permit No.: 08562
Former Rhodes Service Station
410 Spartanburg Highway South
Lyman, South Carolina 29365
Blue Ridge Project No.: 17-6023.1

Prepared for:
Odom Oil Company
Mr. Robert F. Turner
655 Perrin Drive
Spartanburg, South Carolina 29307

September 11, 2017

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CONSULTING • ENVIRONMENTAL • GEOLOGY

Prepared by:
Blue Ridge Environmental Services, Inc.
2315 Kings Rd. Extension
Shelby, North Carolina 28152
(P) 704.482.2111
(F) 704.482.4335
BRESI@BlueRidge-ESI.com
SC Contractor: 0095

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
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Email: BRESI@BlueRidge-ESI.com
SC Contractor No. 0095

September 11, 2017

Mr. Robert A. Dunn
SCDHEC
Corrective Action Section
UST Management Division
2600 Bull Street
Columbia, SC 29201

Subject: **Groundwater Monitoring Report**
Former Rhodes Service Station
410 Spartanburg Highway South
Lyman, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.1

Dear Mr. Dunn:

Blue Ridge Environmental Services, Inc. (Blue Ridge) is pleased to present the results of the groundwater sampling activities performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 55168. The location of the monitoring wells is illustrated on Figure 2.

Introduction

1. UST Facility Name: Former Rhodes Service Station
   UST Permit Number: 08562
   Address: 410 Spartanburg Highway South, Lyman, SC 29365
   Phone Number: (864) 949-6800

2. UST Owner: Odom Oil Company Attn: Mr. Robert F. Turner
   Address: 655 Perrin Drive, Spartanburg, South Carolina 29307
   Phone Number: N/A

3. UST Operator: Former Rhodes Service Station
   Address: 410 Spartanburg Highway South, Lyman, SC 29365
   Phone Number: (864) 949-6800

4. Property Owner Name: Service Oil Company
   Address: P.O. Box 3255, Spartanburg, SC 29304
   Phone Number: 864-583-3688

5. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.
   Address: 2315 Kings Road Ext., Shelby, NC 28152
   SCDHEC Certified Contractor Number: 0095
6. SCDHEC Certified Laboratory: Shealy Environmental Services, Inc.
   Address: 106 Vantage Point Drive, Columbia, South Carolina, 29172
   Phone Number: (803) 791-9700
   SCDHEC Certified Laboratory Certification Number: 32010

Facility History

Two (2) 4,000-gallon and two (2) 2,000-gallon single walled steel Underground Storage Tanks (USTs) were previously located at the site and were reportedly removed on November 11, 1911. A release was reported to SCDHEC on January 24, 1990. The release was caused by a leaking UST system with an unknown quantity of product released. The former UST system is described in detail on the table below titled Former USTs Located Onsite.

Former UST's Located Onsite

UST #	Product	Date Installed (Year)	Currently in use (Yes or No)	Tank Size	If not in use, Date Removed	Removed (Yes or No)
1	Gasoline	Unknown	No	2,000	11/11/1911	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes
4	Gasoline	Unknown	No	4,000	11/11/1911	Yes

Regional Geology and Hydrogeology

The site is in the Inner Piedmont within the Piedmont Physiographic Province. The Inner Piedmont Belt is characterized by upper amphibolite facies granite gneiss, mica schist, migmatites, and granotoid rocks with low to moderately dipping recumbent folds. The igneous and metamorphic rocks are weathered to saprolite and near the surface to residual soil. Depths and thicknesses of soil and saprolite vary widely, from less than one to hundreds of feet thick; generally, it is thin on ridges and thicker on slopes and broad uplands.

The Piedmont groundwater system is a two-part system consisting of regolith, composed of a granular layer of soil and saprolite and thin, discontinuous alluvial

deposits, overlying fractured, crystalline bedrock. Hydraulically, the regolith functions as the reservoir of the system and the bedrock fractures as pipelines that transmit water from the regolith to natural discharge areas. In detail, the regolith consists of a porous and permeable soil zone that grades downward into saprolite, which in turn, grades into unweathered rock. In saprolite, water flows through interstitial pore space while in unweathered rocks, flow is via fractures. Groundwater in the Piedmont occurs in a shallow saturated zone in saprolite and more commonly in a much thicker bedrock "aquifer". Saturated saprolite is hydraulically connected in most areas to the underlying bedrock.

Groundwater Data

Prior to purging and sampling the monitoring wells, the static water levels were recorded and are included in Table 1 - Potentiometric Data. Blue Ridge's field staff removed groundwater from the monitoring well for purging using a new polyethylene bailer, suspended by nylon line. Prior to purging each monitoring well, the static water level was recorded and the well casing volume was calculated. Groundwater was purged from the wells until field measurements of pH, specific conductivity, temperature and turbidity stabilized within 10 percent or was less than or equal to 10 Nephelometric Turbidity Units (NTUs), or the well was pumped/bailed dry. Groundwater parameters were collected using a Horiba-U52, with calibrations occurring pre-use, midday, and/or as necessary. Field Data Information Sheets depicting the groundwater parameters for each monitoring well sampled is included as Appendix A. A Wastewater Disposal Manifest for purged groundwater is included as Appendix C.

Prior to sampling the monitoring wells, Blue Ridge staff used new nitrile gloves to avoid sample contamination and cross-contamination and used laboratory provided sample containers labeled with sample name, sample ID, site name, required lab analyses, preservative, sampler initials, date and time of sample collection. In addition, the groundwater samples were collected using new polyethylene bailers, suspended by nylon line. Plastic sheeting was placed around the perimeter of the monitoring well being sampled and a bailer was slowly lowered into the water table, allowed to fill and then slowly extracted from the well. The water samples were placed in the laboratory-provided and approved sample jars; sealed; logged onto a chain-of-custody form; then placed on ice in a cooler for storage.

A field blank was prepared for each day of the site's groundwater sampling event. The field blank was provided by the laboratory and was prepared using de-ionized (DI) water in an approved sample jar. The field blank jar lid was opened at the time of the groundwater sampling event to duplicate field environmental conditions. One trip blank was used at the site. The trip blank was provided by the laboratory using DI water in an

approved sample jar and remained sealed throughout the round-trip journey to the site and back to the laboratory.

On August 16 and 17, 2017 groundwater samples were collected from monitoring wells 08562-MW-1, 08562-MW-3, 08562-MW-5, 08562-MW-6, 08562-MW-8, 08562-MW-9R, 08562-MW-11 through 08562-MW-14R, 08562-MW-15 through 08562-MW-19, 08562-MW-21 through 08562-MW-25 and 08562-VMW-1. In addition, duplicate samples were collected from monitoring wells 08562-MW-5 and 08562-MW-6. The groundwater samples were submitted for laboratory analysis for BTEX, Naphthalene, MTBE, 1,2-DCA and Eight Oxygenates by EPA Method 8260B and EDB by Method 8011. A Groundwater Chemicals of Concern Map depicting well locations is enclosed as Figure 4. Please note 08562-MW-4 was not sampled due to the presence of 0.29 feet of free-phase product (FPP) in the well. Monitoring well 08562-MW-2, 08562-MW-10 and 08562-VMW-2 were unable to be located during this assessment. Blue Ridge personnel made an effort to locate the wells with a metal detector, but where unsuccessful in finding them, therefore no samples were collected. No samples were collected from monitoring wells 08562-MW-7 and 08562-MW-20 because the wells appear to have been destroyed due to previous construction activities.

On August 16, 2017, the depth to groundwater measurements obtained from the shallow monitoring wells ranged from 15.14 feet below grade level (bgl) at 08562-MW-24 to 20.14 feet bgl at 08562-MW-14R. A depth to groundwater measurement obtained from the deep monitoring well, 08562-VMW-1 was 17.81 feet bgl. A groundwater potentiometric map depicting shallow aquifer flow is enclosed as Figure 3. Relative groundwater elevation data and well screen interval data are presented in Table 1 - Potentiometric Data. Based on the groundwater data obtained, the current shallow groundwater flow direction is predominately towards the south. Please note that apparent groundwater mounding within the vicinity of 08562-MW-1 may be due to the porous vegetative ground cover attributing to an increase in local recharge in the saturated zone of the unconfined shallow aquifer in this area.

Results and Discussion

Groundwater analytical results indicated that of the twenty-one (21) monitoring wells sampled, five (5), 08562-MW-1, 08562-MW-3, 08562-MW-5, 08562-MW-13 and 08562-MW-15 revealed detectable concentrations of Benzene, Toluene, Ethylbenzene, Xylenes, MTBE, Naphthalene, 1,2-DCA (1,2-dichloroethane), EDB (1,2-Dibromoethane), IPE (Isopropylether), Ethanol, ETBE (ethyl-tert-butyl ether), TAA (tert-amyl alcohol), TAME (tert-amyl methyl ether) and/or TBA above Risk-Based Screening Levels (RBSLs) and/or Action Levels (ALs) for one or more constituents. In addition, the duplicate sample collected from 08562-MW-5 also reported concentrations above

the RBSLs and/or ALs. Chemicals of Concern (COCs) reported in the groundwater samples collected from monitoring wells 08562-MW-8, 08562-MW-11, 08562-MW-22 and 08562-VMW-1 were below the RBSLs and/or the laboratory detection limit.

Please refer to Table 2 - Select Summary of Groundwater Analytical Data and Table 3 - Select Summary of Eight Oxygenate Data for current and historical analytical data. A groundwater COC map is enclosed as Figure 4 and depicts the groundwater contaminant concentration levels from the August 16 and 17, 2017 sampling event at site specific locations. For a complete list of laboratory results, analytical methods and the dates sampled, refer to Appendix B - Laboratory Analytical Results and Chain of Custody Records. Monitoring Well 08562-MW-4 contained approximately 0.29 feet of FPP and monitoring wells 08562-MW-5 and 08562-MW-15 exhibited the most elevated overall COCs with historical exceedances of the RBSLs and/or FPP.

Based on the results of the August 16 and 17, 2017 groundwater sampling event and the consistent presence of localized FPP and high COCs (refer to Table 2 & Figure 4), Blue Ridge recommends the installation of three (3) 4-Inch diameter recovery wells. The three (3) wells will be installed in a triangular pattern surrounding 08562-MW-4. Subsequent to the installation of the recovery wells, Aggressive Fluid Vapor Recovery (AFVR) activities should be conducted on the recovery wells concurrently with monitoring wells 08562-MW-4 and 08562-MW-5 in an effort to remove FPP and reduce contaminant concentration levels. Furthermore, all monitoring wells are recommended to be sampled on a regular basis. If you have any questions regarding this matter, please do not hesitate to contact us at (704) 482-2111.

Sincerely,
Blue Ridge Environmental Services, Inc.

Jeffrey R. White
Environmental Scientist

CLIFF R. LUNDGREN
REGISTERED
NO.
2045
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Kenneth A. Pimienta
Geologist/Project Manager

Cliff R. Lundgren, P.G.
Senior Consultant / President
SC Registration #2045

cc: Mr. Robert F. Turner

Enclosures

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Appendix C - Disposal Manifest
Appendix D - Contractor Checklist

TABLES

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-1	1/21/00	100.00	15-25	N/A	N/A	17.91	82.09
	4/23/01			N/A	N/A	17.49	82.51
	11/20/01			N/A	N/A	19.41	80.59
	6/20/02			N/A	N/A	18.12	81.88
	10/28/09			N/A	N/A	18.03	81.97
	2/18/10			NR			
	10/29/15			N/A	N/A	15.89	84.11
	8/16/17			N/A	N/A	16.29	83.71
08562-MW-2	1/21/00	99.04	15-25	N/A	N/A	18.02	81.02
	4/23/01			N/A	N/A	17.92	81.12
	11/20/01			N/A	N/A	20.03	79.01
	6/20/02			N/A	N/A	18.82	80.22
	9/15/09			N/A	N/A	18.85	80.19
	2/18/10			N/A	N/A	NR	NR
	10/29/15			Not Located			
	8/16/17			Not Located			
08562-MW-3	1/21/00	99.57	15-25	N/A	N/A	17.45	82.12
	4/23/01			N/A	N/A	18.16	81.41
	11/20/01			N/A	N/A	19.77	79.80
	6/20/02			N/A	N/A	18.09	81.48
	10/28/09			N/A	N/A	18.11	81.46
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	16.47	83.10
08562-MW-4	4/23/01	98.65	10-30	FPP			
	11/20/01			FPP			
	6/20/02			FPP			
	9/15/09			18.45	0.18	18.63	80.17*
	2/18/10			NR			
	10/29/15			16.21	0.60	16.81	82.35*
	8/16/17			16.71	0.29	17.00	82.35*

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-5	4/23/01	97.85	10-30	N/A	N/A	17.20	80.65
	11/20/01			N/A	N/A	19.12	78.73
	6/20/02			N/A	N/A	17.84	80.01
	9/15/09			N/A	N/A	17.64	80.21
	2/18/10			NR			
	10/29/15			N/A	N/A	15.61	82.24
	8/16/17			N/A	N/A	16.05	81.80
08562-MW-6	4/23/01	97.87	10-30	N/A	N/A	16.93	80.94
	11/20/01			N/A	N/A	18.82	79.05
	6/20/02			N/A	N/A	17.59	80.28
	9/15/09			N/A	N/A	17.22	80.65
	2/18/10			NR			
	10/29/15			N/A	N/A	15.69	82.18
	8/16/17			N/A	N/A	15.71	82.16
08562-MW-7	4/23/01	97.26	10-30	N/A	N/A	17.86	79.40
	11/20/01			N/A	N/A	19.50	77.76
	6/20/02			N/A	N/A	18.18	79.08
	9/15/09			Destroyed			
	2/18/10			Destroyed			
	10/29/15			Destroyed			
	8/16/17			Destroyed			
08652-MW-8	4/23/01	99.33	10-30	N/A	N/A	20.92	78.41
	11/20/01			N/A	N/A	22.10	77.23
	6/20/02			N/A	N/A	19.72	79.61
	9/15/09			N/A	N/A	20.58	78.75
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	18.79	80.54

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-9	4/23/01	98.70	10-30	N/A	N/A	20.46	78.24
	11/20/01			Not Located			
	6/20/02			N/A	N/A	21.69	77.01
	9/15/09			Not Located			
	2/18/10			NR			
08652-MW-9R	2/18/10	98.43	10-30	N/A	N/A	16.72	81.71
	10/29/15			N/A	N/A	19.13	79.30
	8/16/17			N/A	N/A	19.59	78.84
08652-MW-10	4/23/01	98.71	10-30	N/A	N/A	19.04	79.67
	11/20/01			N/A	N/A	21.03	77.68
	6/20/02			N/A	N/A	19.68	79.03
	9/15/09			N/A	N/A	19.55	79.16
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			Not Located			
08562-MW-11	4/23/01	98.49	7-27	N/A	N/A	18.39	80.10
	11/20/01			N/A	N/A	19.98	78.51
	6/20/02			N/A	N/A	18.70	79.79
	9/15/09			N/A	N/A	18.50	79.99
	2/18/10			NR			
	10/29/15			N/A	N/A	16.94	81.55
	8/16/17			N/A	N/A	17.08	81.41
08652-MW-12	4/23/01	97.75	10-30	N/A	N/A	18.21	79.54
	11/20/01			N/A	N/A	19.47	78.28
	6/20/02			N/A	N/A	18.19	79.56
	9/15/09			N/A	N/A	18.01	79.74
	2/18/10			NR			
	10/29/15			N/A	N/A	16.34	81.41
	8/16/17			N/A	N/A	16.55	81.20

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-13	4/23/01	99.30	15-35	N/A	N/A	19.94	79.36
	11/20/01			N/A	N/A	21.85	77.45
	6/20/02			NR			
	10/28/09			N/A	N/A	20.74	78.56
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	18.91	80.39
08652-MW-14	4/23/01	100.29	15-35	N/A	N/A	21.54	78.75
	11/20/01			N/A	N/A	23.42	76.87
	6/20/02			NR			
	9/15/09			Not Located			
	2/18/10			Not Located			
08652-MW-14R	2/18/10	99.96	10-30	N/A	N/A	17.52	82.44
	10/29/15			N/A	N/A	19.90	80.06
	8/16/17			N/A	N/A	20.14	79.82
08652-MW-15	4/23/01	97.79	10-30	FPP			
	11/20/01			FPP			
	6/20/02			FPP			
	10/28/09			17.94	0.77	18.71	79.74*
	2/18/10			NR			
	10/29/15			N/A	N/A	15.79	82.00
	8/16/17			N/A	N/A	16.10	81.69
08652-MW-16	4/23/01	98.68	10-30	N/A	N/A	17.87	80.81
	11/20/01			N/A	N/A	19.70	78.98
	6/20/02			N/A	N/A	18.50	80.18
	9/15/09			N/A	N/A	18.19	80.49
	2/18/10			NR			
	10/29/15			N/A	N/A	16.33	82.35
	8/16/17			N/A	N/A	16.65	82.03

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-17	4/23/01	98.89	10-30	N/A	N/A	18.29	80.60
	11/20/01			N/A	N/A	20.05	78.84
	6/20/02			N/A	N/A	18.83	80.06
	10/28/09			N/A	N/A	18.75	80.14
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	17.08	81.81
08652-MW-18	4/23/01	98.43	10-30	N/A	N/A	18.12	80.31
	11/20/01			N/A	N/A	19.88	78.55
	6/20/02			N/A	N/A	18.61	79.82
	10/28/09			N/A	N/A	18.94	79.49
	2/18/10			NR			
	10/29/15			N/A	N/A	16.99	81.44
	8/16/17			N/A	N/A	16.85	81.58
08652-MW-19	6/20/02	N/A	15-35	N/A	N/A	21.86	N/A
	10/28/09			N/A	N/A	22.18	N/A
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	20.36	N/A
08652-MW-20	2/18/10	98.68	10-30	N/A	N/A	17.19	81.49
	10/29/15			Not Located			
	8/16/17			Not Located			
08652-MW-21	2/18/10	99.39	15-30	N/A	N/A	16.74	82.65
	10/29/15			N/A	N/A	17.87	81.52
	8/16/17			N/A	N/A	18.02	81.37
08652-MW-22	2/18/10	97.69	15-30	N/A	N/A	13.35	84.34
	10/29/15			N/A	N/A	15.83	81.86
	8/16/17			N/A	N/A	15.91	81.78
08652-MW-23	2/18/10	97.33	10-30	N/A	N/A	12.42	84.91
	10/29/15			N/A	N/A	15.26	82.07
	8/16/17			N/A	N/A	15.75	81.58

Table 1[1]
Former Rhodes Service Station
Potentiometric Data

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-24	2/18/10	98.13	15-30	N/A	N/A	12.91	85.22
	10/29/15			N/A	N/A	15.11	83.02
	8/16/17			N/A	N/A	15.14	82.99
08652-MW-25	2/18/10	98.06	10-30	N/A	N/A	15.75	82.31
	10/29/15			N/A	N/A	18.51	79.55
	8/16/17			N/A	N/A	18.86	79.20
08652-VMW-1	11/20/01	98.32	55-60	N/A	N/A	25.96	72.36
	6/20/02			N/A	N/A	20.48	77.84
	9/15/09			N/A	N/A	19.28	79.04
	2/18/10			NR			
	10/29/15			N/A	N/A	17.42	80.90
	8/16/17			N/A	N/A	17.81	80.51
08652-VMW-2	2/18/10	98.32	36-41	N/A	N/A	19.38	78.94
	10/29/15			Not Located			
	8/16/17			Not Located			

[1] Keyed to Figure 3
N/A: Not Applicable
NR: Not Requested
FPP: Free Phase Product
* : Compensated for FPP

TABLE 2[1]

Former Rhodes Service Station

Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-1	1/21/00	**21,000**	**85,000**	**2,800**	**21,000**	ND	**460**	NR	N/A	**2.3**	0.26	ND	ND	0.79
	4/24/01	**12,400**	**38,000**	**1,660**	**21,000**	ND	**434**	NR	**835**	**1.98**	ND	ND	1.45	1.36
	11/20/01	**19,100**	**49,800**	**3,800**	**21,900**	ND	**530**	NR	N/A	**2.32**	N/A	N/A	N/A	N/A
	6/20/02	**12,100**	**34,500**	**2,330**	**12,700**	ND	**380**	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**3,300**	**26,000**	**3,700**	**21,500**	**<100**	**680**	**<100**	**69**	0.038	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	**420**	**8,600**	**1,700**	**12,000**	**<50**	**480**	**<50**	**3.1**	N/A	N/A	N/A	N/A	N/A
	8/17/17	**410**	**13,000**	**2,900**	**18,000**	**<200**	**670**	**<200**	**2.8**	N/A	N/A	N/A	N/A	N/A
08562-MW-1 Duplicate	10/30/15	**390**	**7,900**	**1,500**	**11,000**	**<50**	**420**	**<50**	**3**	N/A	N/A	N/A	N/A	N/A
08562-MW-2	1/21/00	**9**	**1,600**	**880**	5,000	ND	**220**	N/A	NR	**0.12**	N/A	N/A	N/A	14
	4/24/01	ND	60.2	110	420	ND	**30.9**	ND	NR	**0.315**	0.11	ND	6.76	0.463
	11/20/01	ND	262	663	3,860	ND	**125**	N/A	NR	**0.125**	N/A	N/A	N/A	N/A
	6/20/02	ND	56.6	148	541	ND	**33.8**	NA	NR	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	55	1.4	ND	**34**	<1	<0.021	0.068	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/17/17	Not Located												
08562-MW-3	1/21/00	**4,100**	**75,000**	**3,300**	**18,000**	ND	**400**	NR	N/A	**0.063**	ND	ND	120	27
	4/24/01	**1,350**	**49,000**	**1,810**	**16,700**	ND	**614**	NR	ND	**0.445**	ND	ND	156	16
	11/20/01	**1,500**	**48,900**	**3,770**	**22,600**	ND	**645**	NR	N/A	**0.218**	N/A	N/A	N/A	N/A
	6/20/02	**711**	**44,800**	**3,760**	**20,700**	ND	**624**	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	**<100**	**8,700**	**4,400**	**16,400**	**<100**	**360**	**<100**	<0.021	**0.026**	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
	8/17/17	**<100**	640	**2,300**	**7,400**	**<100**	**330**	**<100**	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-4	4/24/01	Not Sampled												
	11/20/01	**FPP**												
	6/20/02	**FPP**												
	9/15/09	**FPP 0.18 Ft.**												
	10/28/09	**FPP**												
	10/30/15	**FPP 0.60 Ft.**												
	8/17/17	**FPP 0.29 Ft.**												
08562-MW-5	4/24/01	**9,480**	**28,500**	**860**	5,680	ND	NR	NR	**460**	**0.088**	0.59	ND	10.4	2.08
	11/20/01	**19,200**	**30,000**	**1,400**	**17,800**	ND	**510**	NR	N/A	**0.808**	N/A	N/A	N/A	N/A
	6/20/02	**17,100**	**36,400**	**1,740**	1,330	18	**258**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**19,000**	**51,000**	**4,100**	**23,200**	**<1,000**	**<1,000**	**<1,000**	**500**	**1.3**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	**4,700**	**27,000**	**2,100**	**20,000**	**<200**	**630**	**<200**	**48**	N/A	N/A	N/A	N/A	N/A
	8/17/17	**14,000**	**49,000**	**3,200**	**17,000**	**<1,000**	**480J**	**<1,000**	**300**	N/A	N/A	N/A	N/A	N/A
08562-MW-5 Duplicate	8/17/17	**14,000**	**47,000**	**2,900**	**16,000**	**<1,000**	**410J**	**<1,000**	**270**	N/A	N/A	N/A	N/A	N/A

TABLE 2[1]

Former Rhodes Service Station

Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-6	4/24/01	ND	ND	ND	3.1	ND	ND	NR	ND	**0.192**	0.52	0.44	ND	0.102
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**84**	150	19	68	<1	<1	<1	<0.021	**0.041**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-6 Duplicate	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-7	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.144**	1.11	ND	ND	0.19
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.053**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	Not Located												
	10/30/15	Destroyed												
	8/17/17	Destroyed												
08562-MW-8	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.016**	0.79	ND	ND	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	0.007	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	1.1	<1	<3	<1	<1	<1	<0.022	**0.28**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/17/17	<1	<1	<1	<1	<1	<1	<1	0.0084JP	N/A	N/A	N/A	N/A	N/A
08562-MW-9	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.404**	1.84	ND	1.44	0.615
	11/20/01	Not Sampled												
	6/20/02	Not Sampled												
	9/15/09	Not Located												
	10/28/09	Not Located												
08562-MW-9R	10/30/15	<1	<1	<1	<1	1.1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-10	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.078**	2.48	ND	1.42	0.184
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	NR	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	<1	<0.021	N/A	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/16/17	Not Located												

TABLE 2[1]
Former Rhodes Service Station
Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-11	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.092**	1.22	ND	5.65	10.2
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.042**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	NR	<0.021	**0.016**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	2.7	<1	<1	<1	7.2	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	2.3	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-12	4/24/01	**4,850**	**5,160**	**1,090**	6,150	ND	**93.0**	NR	**30.1**	**0.094**	ND	ND	2.32	ND
	11/20/01	**4,410**	467	410	3,270	ND	**194**	NR	N/A	**0.109**	N/A	N/A	N/A	N/A
	6/20/02	**2,400**	682	497	2,140	ND	**194**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**950**	**2,200**	**1,100**	4,900	38	**320**	**55**	**3.6**	**0.023**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08652-MW-13	4/24/01	**2,300**	29.8	45.8	**15,000**	ND	**28.2**	NR	**11.6**	0.003	ND	ND	ND	ND
	11/20/01	**1,790**	23.5	497	303	ND	**101**	NR	N/A	**0.138**	N/A	N/A	N/A	N/A
	6/20/02	**2,050**	ND	385	2,700	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<1	<1	4.1	49	<1	<1	**20**	<0.021	**0.24**	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
	8/16/17	**6.4**	<1	<1	2	<1	<1	2.5	0.014JP	N/A	N/A	N/A	N/A	N/A
08562-MW-14	4/24/01	**2,800**	ND	ND	ND	ND	ND	NR	ND	**0.119**	1.05	ND	4.18	0.288
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.196**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	Not Located												
08562-MW-14R	10/30/15	<1	<1	<1	1.2	<1	<1	<1	0.025	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08652-MW-15	4/24/01	Not Sampled												
	11/20/01	**FPP**												
	6/20/02	**FPP**												
	9/15/09	**FPP**												
	10/28/09	**FPP 0.77 Ft.**												
	10/30/15	**1,700**	**16,000**	**1,900**	**15,000**	**<50**	**610**	**<50**	**20**	N/A	N/A	N/A	N/A	N/A
	8/17/17	**2,600**	**42,000**	**7,000**	**42,000**	**<1,000**	**1,600**	**<1,000**	**44**	N/A	N/A	N/A	N/A	N/A

TABLE 2[1]

Former Rhodes Service Station

Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-MW-16	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.089**	0.81	ND	9.26	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	ND	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	ND	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	<1	<0.021	0	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1	<1	<1	<1	4.9	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-17	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.13**	0.20	ND	ND	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	0.004	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	<1	<0.021	**0.015**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-18	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.039**	10.80	ND	ND	0.126
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.049**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	**0.039**	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<1	<1	<1	<3	<1	<1	NR	<0.021	<0.0050	N/A	N/A	N/A	N/A
	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-19	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	NR	NR	NR	NR
	9/15/09	Not Sampled												
	10/28/09	<1	<1	<1	<3	<1	<1	<1	<0.021	0	NR	NR	NR	NR
	10/30/15	Not Located												
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-20	10/30/15	Destroyed												
	8/17/17	Destroyed												
08562-MW-21	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-22	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	0.56J	<1	<1	<1	1.1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-23	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-MW-24	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-25	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A

TABLE 2[1]
Former Rhodes Service Station
Select Summary of Groundwater Analytical Data

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MTBE	NAPHTHALENE	1,2-DCA	EDB	LEAD	NITRATE	NITRITE	SULFATE	IRON
08562-VMW-1	4/24/01	**67.4**	140	29.3	199	ND	30.4	NR	ND	ND	NR	NR	26,800	0.111
	11/20/01	2.9	3.7	ND	3.4	ND	ND	N/A	N/A	ND	NR	NR	N/A	N/A
	6/20/02	3.8	4.7	ND	7.1	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**7**	9.7	<1	6.4	<1	1.6	<1	<0.021	<0.0050	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	1.5	2.1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	0.65J	1.2	<1	0.49J	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-VMW-2	2/18/10	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
	8/16/17	Not Located												
08562-Field Blank	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
08562-Trip Blank	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A

[1]Keyed to Figure 4
Concentrations in bold exceed the Risk Based Screening Levels (RBSLs)
N/A: Not Applicable
J: Estimated result < Limit of Quantitation (LOQ) and > Detection Limit (DL)
P: The RPD between two GC columns exceeds 40%

TABLE 3[1]
Former Rhodes Service Station
Select Summary of Eight Oxygenate Data

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-1	9/15/09	<10.6	<1,190	<111	<5.18	**<1,080**	<6.96	<82.4	<7.14
	10/30/15	<50	<5,000	<1,000	**<50**	**<1,000**	**<500**	<1,000	<250
	8/17/17	**<200**	**<20,000**	<4,000	**<200**	**<4,000**	**<2,000**	**<4,000**	<1,000
08562-MW-1 Duplicate	10/30/15	<50	<5,000	<1,000	**<50**	**<1,000**	**<500**	<1,000	<250
08562-MW-2	9/15/09	<0.529	<59.5	<5.56	<0.259	176	<0.348	<4.12	<0.357
	10/30/15	Not Located							
	8/17/17	Not Located							
08562-MW-3	10/28/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
	8/17/17	<100	**<10,000**	<2,000	**<100**	**<2,000**	**<1,000**	**<2,000**	<500
08562-MW-4	10/29/15	**FPP 0.60 Ft.**							
	8/16/17	**FPP 0.29 Ft.**							
08562-MW-5	9/15/09	**321**	<1,190	<111	<5.18	**7,950**	<6.96	<82.4	<7.14
	10/30/15	**<200**	**<20,000**	<4,000	**<200**	**<4,000**	**<2,000**	**<4,000**	<1,000
	8/17/17	**<1,000**	**<100,000**	<20,000	**<1,000**	**<20,000**	**<10,000**	**<20,000**	<5,000
08562-MW-5 Duplicate	8/17/17	**<1,000**	**<100,000**	<20,000	**<1,000**	**<20,000**	**<10,000**	**<20,000**	<5,000
08562-MW-6	9/15/09	<2.65	<298	<27.8	<1.3	**1,110**	<1.74	<20.6	<1.79
	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-6 Duplicate	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-7	10/30/15	Destroyed							
	8/17/17	Destroyed							

TABLE 3[1]
Former Rhodes Service Station
Select Summary of Eight Oxygenate Data

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-8	9/15/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-9R	10/30/15	Not Located							
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-10	9/15/09	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/15	Not Located							
	8/16/17	Not Located							
08562-MW-11	9/15/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-12	9/15/09	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
	10/30/15	25.6	<298	<27.8	<1.3	**812**	<1.74	<20.6	<1.79
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-13	10/28/09	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/2015	<3.69	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/16/17	<1	<100	<20	<1	19J	<10	<20	<5
08562-MW-14R	10/30/15	Not Located							
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-15	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	**<1,000**	**<100,000**	<20,000	**<1,000**	**<20,000**	**<10,000**	**<20,000**	<5,000

TABLE 3[1]
Former Rhodes Service Station
Select Summary of Eight Oxygenate Data

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-16	9/15/09	<50	<5,000	<1,000	**<50**	**<1,000**	**<500**	<1,000	<250
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-17	9/15/09	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-18	10/28/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-19	10/28/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-20	10/30/15	Destroyed							
	8/17/17	Destroyed							
08562-MW-21	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-22	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-23	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-24	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5

TABLE 3[1]
Former Rhodes Service Station
Select Summary of Eight Oxygenate Data

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-25	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-VMW-1	9/15/09	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-VMW-2	2/18/15	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/15	<5	<100	<20	<1	<20	<10	<20	<5
	10/30/15	Not Located							
	8/16/17	Not Located							
08562-Field Blank	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-Trip Blank	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5

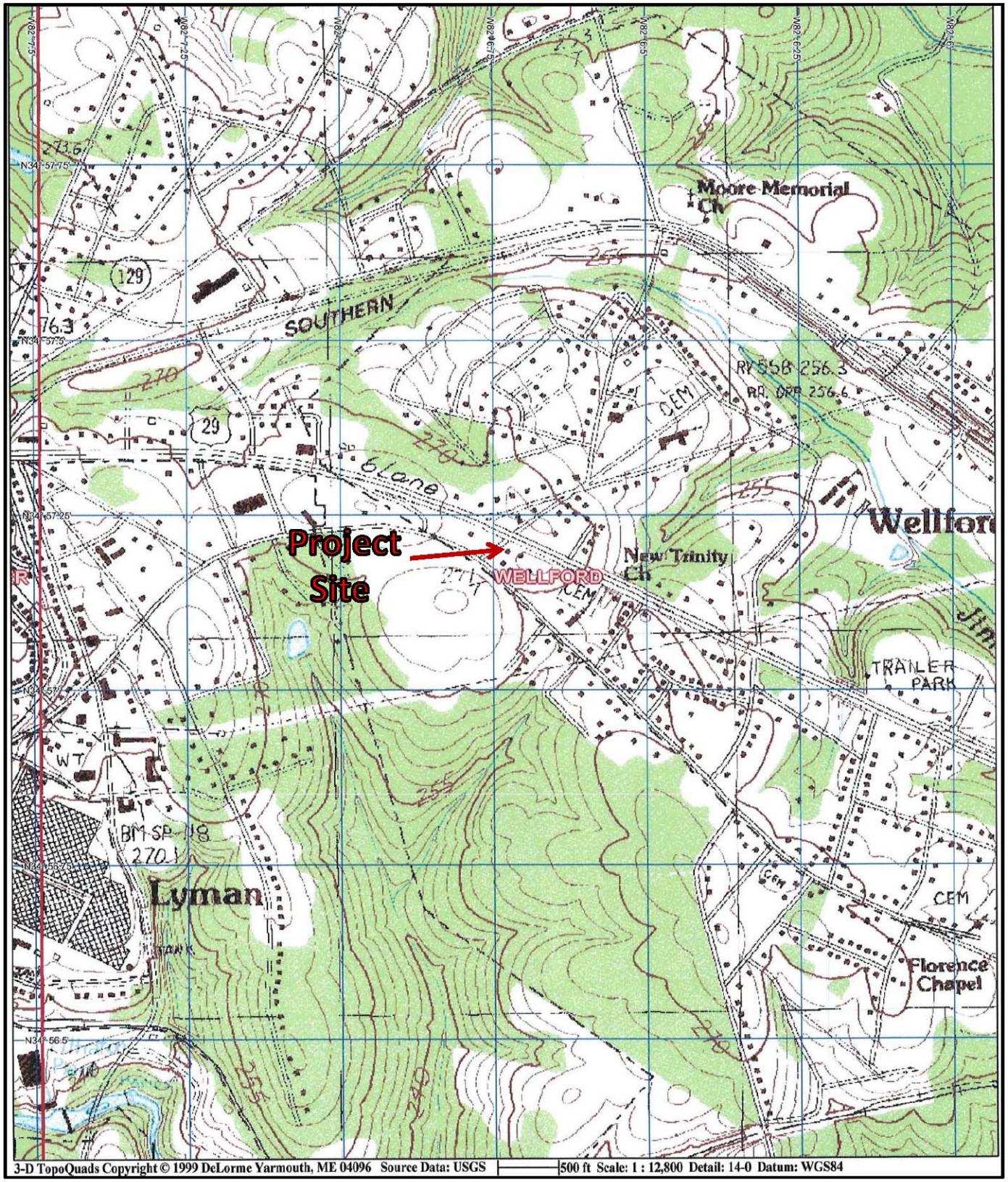
[1]Keyed to Figure 4

Detectable concentrations are noted in bold.

N/A: Not Applicable

J: Estimated result < Limit of Quantitation (LOQ) and > Detection Limit (DL)

FIGURES



TOPOGRAPHIC MAP

0 1,111 ft.

North

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor: # 0095

Client:	Robert F. Turner
Project:	Rhodes Service Station (Former)
Location:	410 S0partanburg Highway South
	Lyman, South Carolina 29365
Blue Ridge Project #:	17-6023.1
Date: 8/29/17	Approximate Scale: 1" = 1,111' Figure 1

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
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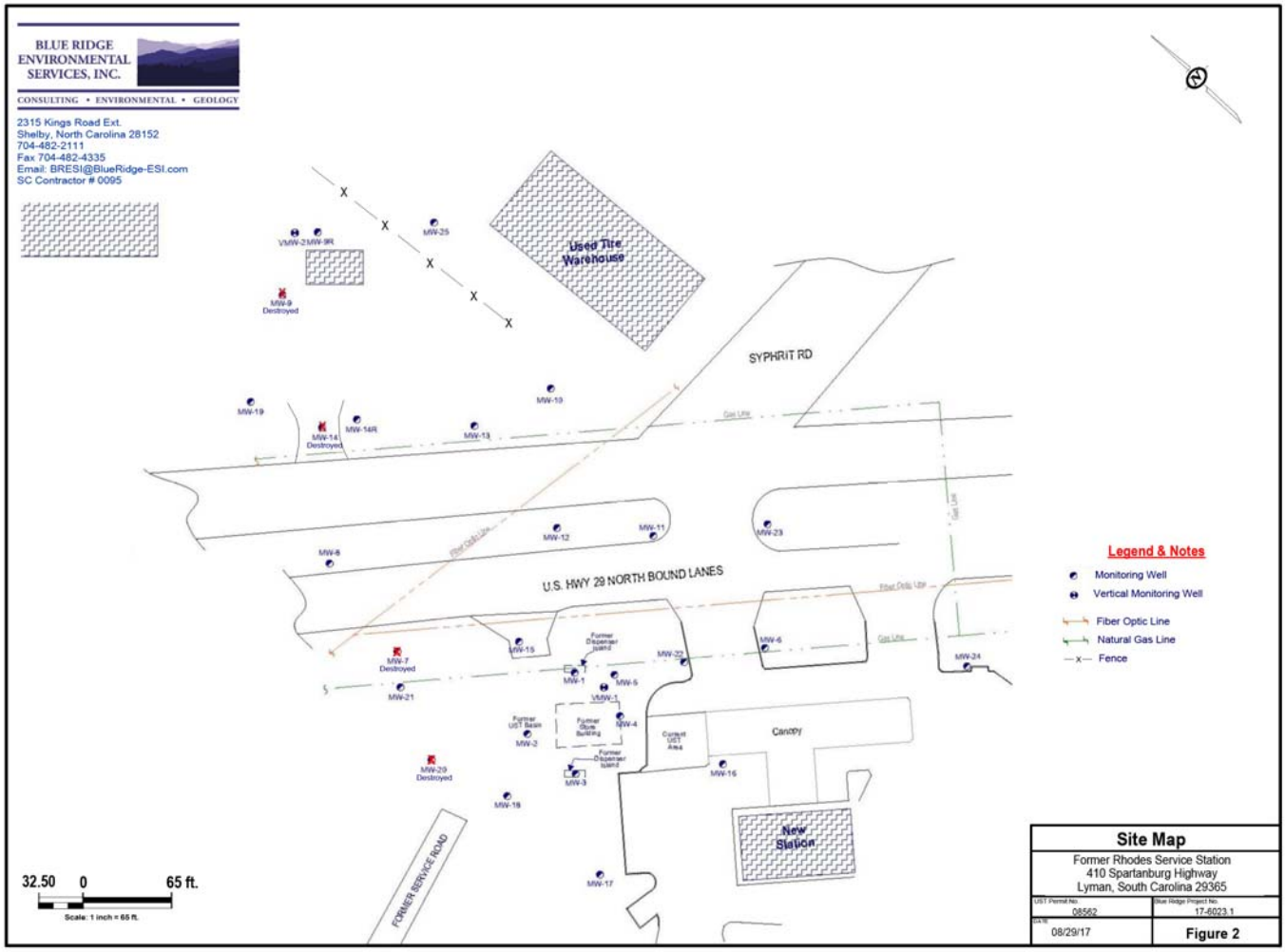
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095



Site Map

Former Rhodes Service Station
410 Spartanburg Highway
Lyman, South Carolina 29365

UST Permit No.	Blue Ridge Project No.
08562	17-6023.1
DATE: 08/29/17	Figure 2

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
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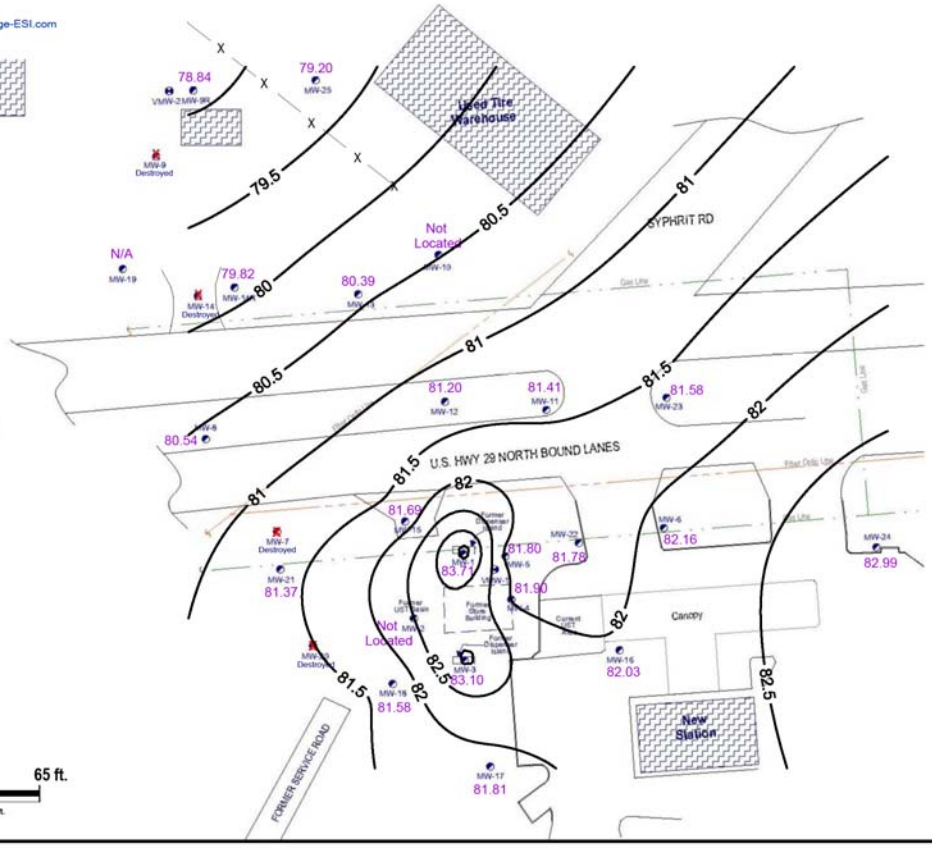
SC Contractor # 0095

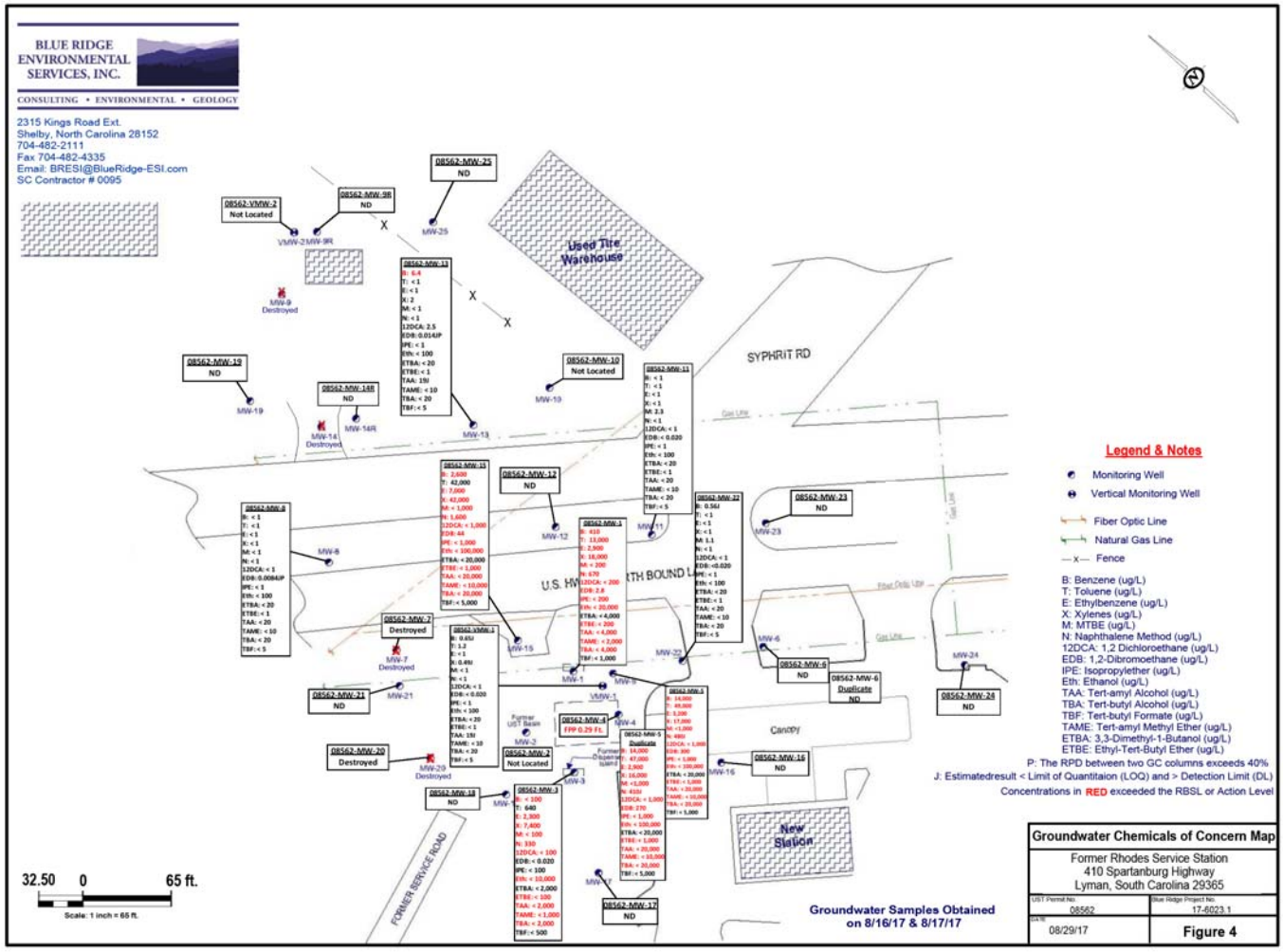


Legend & Notes

- Monitoring Well
- Vertical Monitoring Well
- Fiber Optic Line
- Natural Gas Line
- —x— Fence

Contour Interval Equals 0.50 Feet
Groundwater Levels Obtained on 8/16/17

Groundwater Potentiometric Map	
Former Rhodes Service Station 410 Spartanburg Highway Lyman, South Carolina 29365	
UST Permit No. 08562	Blue Ridge Project No. 17-6023.1
DATE 08/29/17	Figure 3


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095
08562-MW-25 ND
08562-VMW-2 Not Located
08562-MW-9R ND
VMW-2
MW-9R
MW-25
MW-9 Destroyed
Used Tire Warehouse
SYPHRIT RD
08562-MW-19 ND
08562-MW-14R ND
08562-MW-10 Not Located
MW-19
MW-14 Destroyed
MW-14R
MW-13
MW-10
08562-MW-12 ND
MW-12
MW-11
MW-8
MW-7 Destroyed
08562-MW-7 Destroyed
MW-15
U.S. HWY
MW-22
08562-MW-23 ND
MW-23
MW-6
08562-MW-6 ND
08562-MW-6 Duplicate ND
MW-24
08562-MW-24 ND
08562-MW-21 ND
MW-21
MW-1
VMW-1
MW-5
MW-4
08562-MW-4 FPP 0.29 Ft.
Former UST Basin
MW-2
08562-MW-2 Not Located
Former Dispenser Island
MW-3
Canopy
08562-MW-16 ND
MW-16
08562-MW-20 Destroyed
MW-20 Destroyed
08562-MW-18 ND
MW-18
MW-17
08562-MW-17 ND
New Station
FORMER SERVICE ROAD
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
Groundwater Samples Obtained on 8/16/17 & 8/17/17
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
B: Benzene (ug/L)
T: Toluene (ug/L)
E: Ethylbenzene (ug/L)
X: Xylenes (ug/L)
M: MTBE (ug/L)
N: Naphthalene Method (ug/L)
12DCA: 1,2 Dichloroethane (ug/L)
EDB: 1,2-Dibromoethane (ug/L)
IPE: Isopropylether (ug/L)
Eth: Ethanol (ug/L)
TAA: Tert-amyl Alcohol (ug/L)
TBA: Tert-butyl Alcohol (ug/L)
TBF: Tert-butyl Formate (ug/L)
TAME: Tert-amyl Methyl Ether (ug/L)
ETBA: 3,3-Dimethyl-1-Butanol (ug/L)
ETBE: Ethyl-Tert-Butyl Ether (ug/L)
P: The RPD between two GC columns exceeds 40%
J: Estimatedresult < Limit of Quantitaion (LOQ) and > Detection Limit (DL)
Concentrations in RED exceeded the RBSL or Action Level
Groundwater Chemicals of Concern Map
Former Rhodes Service Station
410 Spartanburg Highway
Lyman, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.1
DATE 08/29/17
Figure 4

APPENDICES

APPENDIX A

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Groundwater Sampling
Page 1 of 2

Site Information

Date: August 16 and 17, 2017	Site ID #: 08562	Site Name: Former Rhodes Service Station
County: Spartanburg	Project Manager: Robert Dunn	Field Personnel: JW + KP

Well Sampling Information

Well ID	Time	Sampled Y/N	Screen Interval (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	D.O. (mg/L)	Temp. (°C)	Specific Conductivity (µmohs/cm)	pH (S.U.)	Turbidity (NTU)	Notes (e.g., Odor, No Odor, Product, etc.)
08562-MW-1	1318	Y	15 - 25	—	16.29	—	9.24	23.95	0.086	5.13	547	Odor
08562-MW-2	—	N	15 - 25	—	—	—	—	—	—	—	—	Not Located*
08562-MW-3	1415	Y	15 - 25	—	16.47	—	7.58	22.41	1.25	6.89	1000+	Odor
08562-MW-4	—	N	10 - 30	16.71	17.00	0.29	—	—	—	—	—	Product*
08562-MW-5	1340	Y	10 - 30	—	16.05	—	9.59	22.09	0.057	4.34	1000+	Odor
08562-MW-6	1610	Y	10 - 30	—	15.71	—	10.46	22.51	0.035	4.05	1000+	No odor
08562-MW-7	—	N	—	—	—	—	—	—	—	—	—	Destroyed*
08562-MW-8	1019	Y	10 - 30	—	18.79	—	9.61	23.40	0.029	4.60	1000+	No odor
08562-MW-9	1321	Y	10 - 30	—	19.59	—	10.81	21.47	0.108	4.08	1000+	No odor
08562-MW-10	—	N	10 - 30	—	—	—	—	—	—	—	—	Not Located*
08562-MW-11	1036	Y	7 - 27	—	17.08	—	8.79	24.29	0.021	4.63	1000+	No odor
08562-MW-12	1050	Y	10 - 30	—	16.55	—	9.26	24.98	0.019	5.04	818	No odor
08562-MW-13	1421	Y	15 - 35	—	18.91	—	10.11	22.06	0.044	4.52	1000+	No odor
08562-MW-14R	1343	Y	10 - 30	—	20.14	—	9.73	23.26	0.077	4.20	709	No odor
08562-MW-15	1307	Y	10 - 30	—	16.10	—	—	—	—	—	—	Sheen*

Comments: *08562-MW-2 and 08562-MW-10 were not located.
*08562-MW-4 had 0.29 feet of Free Phase Product.
*08562-MW-7 was determined to have been Destroyed.
*08562-MW-15 did not have any readings (field parameters) due to a sheen on water surface.

Signature:

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Groundwater Sampling
Page 2 of 2

Site Information

Date: August 16 and 17, 2017	Site ID #: 08562	Site Name: Former Rhodes Service Station
County: Spartanburg	Project Manager: Robert Dunn	Field Personnel: JW & KP

Well Sampling Information

Well ID	Time	Sampled Y/N	Screen Interval (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	D.O. (mg/L)	Temp. (°C)	Specific Conductivity (µmohs/cm)	pH (S.U.)	Turbidity (NTU)	Notes (e.g., Odor, No Odor, Product, etc.)
08562-MW-16	1212	Y	10 - 30	—	16.65	—	8.11	24.24	0.027	5.12	1000+	No odor
08562-MW-17	1221	Y	10 - 30	—	17.08	—	9.69	22.81	0.014	4.39	989	No odor
08562-MW-18	1441	Y	10 - 30	—	16.85	—	13.17	23.03	0.445	4.23	746	No odor
08562-MW-19	1347	Y	15 - 35	—	20.36	—	9.74	23.36	0.036	4.52	254	No odor
08562-MW-20	—	N	—	—	—	—	—	—	—	—	—	Destroyed*
08562-MW-21	1512	Y	15 - 30	—	18.02	—	10.14	23.24	0.023	4.21	101.7	No odor
08562-MW-22	1252	Y	15 - 30	—	15.91	—	8.82	22.32	0.036	4.80	501	No odor
08562-MW-23	1059	Y	10 - 30	—	15.75	—	8.59	24.06	0.113	5.49	1000+	No odor
08562-MW-24	1557	Y	15 - 30	—	15.14	—	11.36	23.54	0.027	4.27	492	No odor
08562-MW-25	1420	Y	10 - 30	—	18.86	—	9.81	22.76	0.058	4.55	33.1	No odor
08562-VMW-1	1358	Y	55 - 60	—	17.81	—	10.43	20.11	0.393	6.77	1.9	No odor
08562-VMW-2	—	N	36 - 41	—	—	—	—	—	—	—	—	Not Located*

Comments: *08562-MW-20 was determined to have been destroyed.
*08562-VMW-2 was not located.

Signature:

DHEC 2540 (07/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562 - MW-1	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.29		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 8.71	1 casing volume (CV=LWC*C)(gals): 1.39	3 casing volumes 3*CV)(gals): 4.17	5 casing volumes (5*CV)(gals): 6.95

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.65	3.3	4.95				
Time (military)	1301	1313					1319	1318
PH (s.u.)	4.76	5.09	Dry				5.13	
Specific Conductivity (µS/cm)	0.060	0.0085	@				0.086	
Water Temperature (°C)	24.32	24.30	2.0 Gallon				23.95	
Turbidity (NTU)	146	1000+					547	
Dissolved Oxygen (mg/L)	12.48	9.81					9.39	

Sampling Data

Sampled By: JW	Sampling Time: 13.18	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Hot 2 Gallons

Signature: [signature]

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date:	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-2	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		Not Located						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date:	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-3	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.47	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 8.53	1 casing volume (CV=LWC*C)(gals): 1.37	3 casing volumes 3*CV)(gals): 4.11	5 casing volumes (5*CV)(gals): 6.85

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.65	3.3	Bailed				
Time (military)	1400	1408	1412	Dry @	1105		1416	
PH (s.u.)	6.56	6.71	6.79				6.89	
Specific Conductivity (µS/cm)	1.15	1.10	1.13				1.25	
Water Temperature (°C)	23.90	22.67	22.54	3.75 gal			22.41	
Turbidity (NTU)	259	1000+	1000+				1000+	
Dissolved Oxygen (mg/L)	9.32	8.57	8.32				7.58	

Sampling Data

Sampled By: KP	Sampling Time: 1415	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Hot 3.75 Gallons

Signature: Ken Pimento

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP1126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-4	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): 16.71	Depth to Groundwater (DGW) (ft.): 17.00		Free Product Thickness (ft.): 0.29
Length of water column (LWC=TWD-DGW)(ft.): —	1 casing volume (CV=LWC*C)(gals): —	3 casing volumes 3*CV)(gals): —	5 casing volumes (5*CV)(gals): —

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		FPP						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: JW	Sampling Time: —	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No Simple 0.29' FPP Present

Signature: [signature]

DHEC
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-5	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.05		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 13.95	1 casing volume (CV=LWC*C)(gals): 2.23	3 casing volumes 3*CV)(gals): 6.69	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.93				
Time (military)	1323	1328	1332	1339				
PH (s.u.)	4.58	4.32	4.36	4.34				
Specific Conductivity (µS/cm)	0.057	0.058	0.055	0.057				
Water Temperature (°C)	23.37	22.65	22.89	22.09				
Turbidity (NTU)	13.7	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	9.30	9.26	9.35	9.59				

Sampling Data

Sampled By: KP	Sampling Time: 1340	Duplicate: (Y) or N	If yes, Duplicate Time: 1341

Notes: Hot 6.93 Gallons

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/16	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F): 90

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-6	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.71	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 14.29	1 casing volume (CV=LWC*C)(gals): 2.28	3 casing volumes 3*CV)(gals): 6.84	5 casing volumes (5*CV)(gals): 11.4

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.3	4.6	6.9				
Time (military)	1550	1555	1559	1607				1610
PH (s.u.)	3.98	4.05	4.06	4.05				
Specific Conductivity (µS/cm)	0.034	0.035	0.035	0.035				
Water Temperature (°C)	25.60	23.57	22.72	22.51				
Turbidity (NTU)	103	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	9.68	10.81	11.07	10.46				

Sampling Data

Sampled By: JW	Sampling Time: 1610/1611	Duplicate: Y or N	If yes, Duplicate Time: 1611

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP+126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-7	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 16 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): —	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): —	1 casing volume (CV=LWC*C)(gals): —	3 casing volumes 3*CV)(gals): —	5 casing volumes (5*CV)(gals): —

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		Destroyed						
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Monitoring well appears to have been destroyed when ditch was dug beside Hwy.

Signature:

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP+126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-8	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 18.79		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 11.21	1 casing volume (CV=LWC*C)(gals): 1.79	3 casing volumes 3*CV)(gals): 5.37	5 casing volumes (5*CV)(gals): 8.95

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.98	3.96	5.94				
Time (military)	0955	1004	1011	1018				
PH (s.u.)	4.19	4.52	4.63	4.60				
Specific Conductivity (µS/cm)	0.033	0.030	0.028	0.029				
Water Temperature (°C)	24.53	23.91	23.44	23.40				
Turbidity (NTU)	110.	794	1000+	1000+				
Dissolved Oxygen (mg/L)	9.74	9.54	9.84	9.61				

Sampling Data

Sampled By: JW	Sampling Time: 1019	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

DHEC
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/16/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TDKP+126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-9R	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 19.59		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 10.41	1 casing volume (CV=LWC*C)(gals): 1.67	3 casing volumes 3*CV)(gals): 5.01	5 casing volumes (5*CV)(gals): 8.35

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	~~.25~~	1.75	3.5	5.25	7			
Time (military)	12.50	1301	1310	1315	1320			
PH (s.u.)	4.73	4.77	4.65	4.51	4.08			
Specific Conductivity (µS/cm)	0.196	0.107	0.103	0.106	0.108			
Water Temperature (°C)	24.26	22.18	22.19	21.94	21.47			
Turbidity (NTU)	0.0	1000+	1000+	1000+	1000+			
Dissolved Oxygen (mg/L)	10.42	11.19	10.59	10.89	10.81			

Sampling Data

Sampled By: KP	Sampling Time: 1321	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Ken Pimenta

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/16/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-10	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): —	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): —	1 casing volume (CV=LWC*C)(gals): —	3 casing volumes 3*CV)(gals): —	5 casing volumes (5*CV)(gals): —

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		Not Located						
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Monitoring well appears to be under a storage building

Signature: [signature]

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-11	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 7 to 27		Total Well Depth (TWD) (ft.): 27
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.08		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 9.92	1 casing volume (CV=LWC*C)(gals): 1.58	3 casing volumes 3*CV)(gals): 4.74	5 casing volumes (5*CV)(gals): 7.9

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.65	3.3	4.95				
Time (military)	1016	1022	1029	1035				
PH (s.u.)	4.79	4.55	4.58	4.63				
Specific Conductivity (µS/cm)	0.019	0.024	0.022	0.021				
Water Temperature (°C)	25.61	25.11	24.62	24.29				
Turbidity (NTU)	1004	795	1000+	1000+				
Dissolved Oxygen (mg/L)	8.14	9.06	8.91	8.79				

Sampling Data

Sampled By: KP	Sampling Time: 1036	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-12	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.55		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 13.45	1 casing volume (CV=LWC*C)(gals): 2.15	3 casing volumes 3*CV)(gals): 6.45	5 casing volumes (5*CV)(gals): 10.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.93				
Time (military)	1030	1035	1042	1049				
PH (s.u.)	4.41	5.28	5.09	5.04				
Specific Conductivity (µS/cm)	0.013	0.018	0.019	0.019				
Water Temperature (°C)	25.91	25.42	25.03	24.98				
Turbidity (NTU)	78.1	148	792	818				
Dissolved Oxygen (mg/L)	10.09	9.08	9.17	9.26				

Sampling Data

Sampled By: JW	Sampling Time: 1050	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

DHEC — PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/16/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-13	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.91		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 16.09	1 casing volume (CV=LWC*C)(gals): 2.57	3 casing volumes 3*CV)(gals): 7.71	5 casing volumes (5*CV)(gals): 12.85

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28	7.92				
Time (military)	1400	1409	1414	1419				1421
PH (s.u.)	4.52	4.57	4.58	4.52				
Specific Conductivity (µS/cm)	0.051	0.044	0.046	0.044				
Water Temperature (°C)	21.35	23.81	21.67	22.06				
Turbidity (NTU)	50.8	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	11.36	9.85	10.36	10.11				

Sampling Data

Sampled By: KP	Sampling Time: 1421	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: 7.92 Gallons

Signature: Ken Pinto

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/16/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-14R	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): N/A	Depth to Groundwater (DGW) (ft.): 20.14		Free Product Thickness (ft.): N/A
Length of water column (LWC=TWD-DGW)(ft.): 9.86	1 casing volume (CV=LWC*C)(gals): 1.58	3 casing volumes 3*CV)(gals): 4.74	5 casing volumes (5*CV)(gals): 7.9

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	1.33	1.91					.33	
Time (military)	1330	1334					1344	1343
PH (s.u.)	4.10	4.07					4.20	
Specific Conductivity (µS/cm)	0.064	0.072					0.077	
Water Temperature (°C)	21.97	22.66					23.26	
Turbidity (NTU)	123	1000+					709	
Dissolved Oxygen (mg/L)	10.22	9.91					9.73	

Bailed Dry @ 3.16 gallons

Sampling Data

Sampled By: KP	Sampling Time: 1343	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

DHEC
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TOKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-15	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.10		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 13.9	1 casing volume (CV=LWC*C)(gals): 2.22	3 casing volumes 3*CV)(gals): 6.66	5 casing volumes (5*CV)(gals): 11.1

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.93				
Time (military)	1249	1254	1301	1306				
PH (s.u.)								
Specific Conductivity (µS/cm)	No Reading	Shannon Hg Osurface						
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: JW	Sampling Time: 1307	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Very Hot 6.93 Gallons

Signature: [signature]

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-16	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.65	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 13.35	1 casing volume (CV=LWC*C)(gals): 2.14	3 casing volumes 3*CV)(gals): 6.42	5 casing volumes (5*CV)(gals): 10.70

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33							
Time (military)	1152	1159	1205	1211				1212
PH (s.u.)	4.58	5.12	5.11	5.12				
Specific Conductivity (µS/cm)	0.111	0.030	0.027	0.027				
Water Temperature (°C)	26.07	24.55	24.38	24.24				
Turbidity (NTU)	523	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	9.65	9.85	9.61	8.11				

Sampling Data

Sampled By: KP	Sampling Time: 1212	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

DHEC — PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-17	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.08		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 12.92	1 casing volume (CV=LWC*C)(gals): 2.06	3 casing volumes 3*CV)(gals): 6.18	5 casing volumes (5*CV)(gals): 10.3

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.37	2.31	4.62	6.93				
Time (military)	1158	1206	1211	1220				
PH (s.u.)	4.79	4.49	4.41	4.39				
Specific Conductivity (µS/cm)	0.013	0.011	0.013	0.014				
Water Temperature (°C)	22.61	23.44	22.79	22.81				
Turbidity (NTU)	294	428	1000+	989				
Dissolved Oxygen (mg/L)	10.24	9.41	9.79	9.69				

Sampling Data

Sampled By: JW	Sampling Time: 1221	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date:	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F): 91

Quality Assurance

Meter Name: Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-18	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047. 2" well = 0.16. 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.85		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 13.15	1 casing volume (CV=LWC*C)(gals): 2.1	3 casing volumes 3*CV)(gals): 6.3	5 casing volumes (5*CV)(gals): 10.5

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.93				
Time (military)	1420	1427	1435	1440				
PH (s.u.)	~~5.27~~	4.30	4.21	4.23				
Specific Conductivity (µS/cm)	0.433	0.416	0.441	0.445				
Water Temperature (°C)	24.42	23.47	23.21	23.03				
Turbidity (NTU)	879	816	521	746				
Dissolved Oxygen (mg/L)	14.63	14.35	14.14	13.17				

Sampling Data

Sampled By: KP	Sampling Time: 1441	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/16/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions: Partly Cloudy	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-19	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 20.36		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 14.64	1 casing volume (CV=LWC*C)(gals): 2.34	3 casing volumes 3*CV)(gals): 7	5 casing volumes (5*CV)(gals): 11.5

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33							
Time (military)	1324	1331	1338	1346				1347
PH (s.u.)	4.48	4.38	4.29	4.52				
Specific Conductivity (µS/cm)	0.047	0.035	0.034	0.036				
Water Temperature (°C)	21.97	22.36	22.75	23.30				
Turbidity (NTU)	1000+	141	285	254				
Dissolved Oxygen (mg/L)	10.31	10.21	9.72	9.74				

Sampling Data

Sampled By: JW	Sampling Time: 1347	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP+126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-20	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): —		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): —	1 casing volume (CV=LWC*C)(gals): —	3 casing volumes 3*CV)(gals): —	5 casing volumes (5*CV)(gals): —

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		Destroyed						
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Monitoring well destroyed by building/parking lot construction

Signature: [signature]

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-21	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.02	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 11.98	1 casing volume (CV=LWC*C)(gals): 1.92	3 casing volumes 3*CV)(gals): 5.76	5 casing volumes (5*CV)(gals): 9.6

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.98	3.96	5.76				
Time (military)	1445	1453	1502	1511				
PH (s.u.)	4.28	4.27	4.22	4.21				
Specific Conductivity (µS/cm)	0.053	0.025	0.024	0.023				
Water Temperature (°C)	24.43	23.85	23.41	23.24				
Turbidity (NTU)	87.0	9.1	222.1	101.7				
Dissolved Oxygen (mg/L)	10.17	10.22	10.21	10.14				

Sampling Data

Sampled By: JW	Sampling Time: 1512	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

DHEC
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP	
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):	

Quality Assurance

Meter Name Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-22	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.91	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 14.09	1 casing volume (CV=LWC*C)(gals): 2.25	3 casing volumes 3*CV)(gals): 4.5	5 casing volumes (5*CV)(gals): 11.25

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.3				
Time (military)	1233	1238	1245	1251				1252
PH (s.u.)	4.66	4.77	4.78	4.80				
Specific Conductivity (µS/cm)	0.029	0.036	0.035	0.036				
Water Temperature (°C)	24.07	23.04	22.63	22.32				
Turbidity (NTU)	224	1000+	1000+	501				
Dissolved Oxygen (mg/L)	9.33	9.43	9.15	8.82				

Sampling Data

Sampled By: KP	Sampling Time: 1252	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

DHEC
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP	
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):	

Quality Assurance

Meter Name: Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-23	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.75		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 14.25	1 casing volume (CV=LWC*C)(gals): 2.28	3 casing volumes 3*CV)(gals): 6.84	5 casing volumes (5*CV)(gals): 11.4

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.93				
Time (military)	1035	1043	1051	1058				
PH (s.u.)	5.14	5.62	5.55	5.49				
Specific Conductivity (µS/cm)	0.115	0.112	0.114	0.113				
Water Temperature (°C)	25.79	24.32	24.19	24.06				
Turbidity (NTU)	151	671	1000+	1000+				
Dissolved Oxygen (mg/L)	9.80	8.14	8.52	8.59				

Sampling Data

Sampled By: KP	Sampling Time: 1059	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-24	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.14		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 14.86	1 casing volume (CV=LWC*C)(gals): 2.37	3 casing volumes 3*CV)(gals): 7.1	5 casing volumes (5*CV)(gals): 11.85

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	2.64	5.28	7.92				
Time (military)	1531	1536	1545	1556				
PH (s.u.)	4.63	4.22	4.12	4.27				
Specific Conductivity (µS/cm)	0.022	0.019	0.029	0.027				
Water Temperature (°C)	26.91	24.26	23.74	23.54				
Turbidity (NTU)	652	431	457	492				
Dissolved Oxygen (mg/L)	13.52	11.49	11.29	11.36				

Sampling Data

Sampled By: KP	Sampling Time: 1557	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/16/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKP4126T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-25	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047. 2" well = 0.16. 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.86		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 11.14	1 casing volume (CV=LWC*C)(gals): 1.78	3 casing volumes 3*CV)(gals): 5.34	5 casing volumes (5*CV)(gals): 8.9

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.0	4.0	6.0				
Time (military)	1402	1408	1415	1419				
PH (s.u.)	4.53	4.51	4.53	4.55				
Specific Conductivity (µS/cm)	0.057	0.058	0.059	0.058				
Water Temperature (°C)	23.06	22.91	22.68	22.76				
Turbidity (NTU)	11.5	115.6	98.2	33.1				
Dissolved Oxygen (mg/L)	10.11	10.03	10.01	9.81				

Sampling Data

Sampled By: JW	Sampling Time: 1420	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8/17/17	Site ID #: 08562	Site Name: Former Rhodes Service Station	Field Personnel: JW + KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #: TDKPH26T	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-VMW-1	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 55 to 60		Total Well Depth (TWD) (ft.): 60
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.81		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 42.19	1 casing volume (CV=LWC*C)(gals): 6.75	3 casing volumes 3*CV)(gals): 20.25	5 casing volumes (5*CV)(gals): 33.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	6.93	13.86	20.79				
Time (military)	1325	1338	1349	1357				
PH (s.u.)	6.30	6.85	6.76	6.77				
Specific Conductivity (µS/cm)	0.368	0.390	0.391	0.393				
Water Temperature (°C)	23.61	22.75	22.53	20.11				
Turbidity (NTU)	17.1	0.9	3.1	1.9				
Dissolved Oxygen (mg/L)	9.40	9.95	9.52	10.43				

Sampling Data

Sampled By: JW	Sampling Time: 1358	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-16-17	Site ID #: 08562	Site Name: Former Ahides Service Station	Field Personnel: JW & KP
County: Spartanburg	Project Manager: Robert Dunn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horiba	Serial #: TDKPH2GT	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-VMW-2	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 36 to 41		Total Well Depth (TWD) (ft.): 41
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): —		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): —	1 casing volume (CV=LWC*C)(gals): —	3 casing volumes 3*CV)(gals): —	5 casing volumes (5*CV)(gals): —

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		Vertical Well Not Located						
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: 08562-VMW-2 appears to be under gravel / storage shed.

Signature: [signature]

APPENDIX B

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Blue Ridge Environmental Services
2315 Kings Road Ext.
Shelby, NC 28152
Attention: Cliff Lundgren

Project Name: Rhodes Service Station

Lot Number:**SH18034**

Date Completed:08/24/2017

08/25/2017 1:49 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Blue Ridge Environmental Services
Lot Number: SH18034

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.

Volatiles

The matrix spike/matrix spike duplicate (MS/MSD) associated with sample -018 had several compounds and RPDs recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

EDB/DBCP

The sample results for -004 and -015 have a P qualifier because the relative percent difference (RPD) between the two dissimilar phase GC columns exceeds 40%. The lower results are reported for these samples. The higher result for samples -004 and -015 were 0.026 and 0.017 ug/L, respectively.

Samples -013, -014 and -018 were diluted 1000x, 1000x and 200x, respectively, due to high concentrations of the target compound. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater impact recovery accuracy.

Sample Summary
Blue Ridge Environmental Services
Lot Number: SH18034

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	08562-MW-6	Aqueous	08/16/2017 1610	08/18/2017
002	08562-MW-6 Duplicate	Aqueous	08/16/2017 1611	08/18/2017
003	08562-MW-9R	Aqueous	08/16/2017 1321	08/18/2017
004	08562-MW-13	Aqueous	08/16/2017 1421	08/18/2017
005	08562-MW-14R	Aqueous	08/16/2017 1343	08/18/2017
006	08562-MW-17	Aqueous	08/16/2017 1221	08/18/2017
007	08562-MW-19	Aqueous	08/16/2017 1347	08/18/2017
008	08562-MW-24	Aqueous	08/16/2017 1557	08/18/2017
009	08562-MW-25	Aqueous	08/16/2017 1420	08/18/2017
010	08562-Field Blank 1	Aqueous	08/16/2017 1628	08/18/2017
011	08562-MW-1	Aqueous	08/17/2017 1318	08/18/2017
012	08562-MW-3	Aqueous	08/17/2017 1415	08/18/2017
013	08562-MW-5	Aqueous	08/17/2017 1340	08/18/2017
014	08562-MW-5 Duplicate	Aqueous	08/17/2017 1341	08/18/2017
015	08562-MW-8	Aqueous	08/17/2017 1019	08/18/2017
016	08562-MW-11	Aqueous	08/17/2017 1036	08/18/2017
017	08562-MW-12	Aqueous	08/17/2017 1050	08/18/2017
018	08562-MW-15	Aqueous	08/17/2017 1307	08/18/2017
019	08562-MW-16	Aqueous	08/17/2017 1212	08/18/2017
020	08562-MW-18	Aqueous	08/17/2017 1441	08/18/2017
021	08562-MW-21	Aqueous	08/17/2017 1512	08/18/2017
022	08562-MW-22	Aqueous	08/17/2017 1252	08/18/2017
023	08562-MW-23	Aqueous	08/17/2017 1059	08/18/2017
024	08562-VMW-1	Aqueous	08/17/2017 1358	08/18/2017
025	08562-Field Blank 2	Aqueous	08/17/2017 1520	08/18/2017
026	08562-Trip Blank	Aqueous	08/17/2017	08/18/2017

(26 samples)

Detection Summary
Blue Ridge Environmental Services
Lot Number: SH18034

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	08562-MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	19	J	ug/L	8
004	08562-MW-13	Aqueous	Benzene	8260B	6.4		ug/L	8
004	08562-MW-13	Aqueous	1,2-Dichloroethane	8260B	2.5		ug/L	8
004	08562-MW-13	Aqueous	Naphthalene	8260B	4.3		ug/L	8
004	08562-MW-13	Aqueous	Xylenes (total)	8260B	2.0		ug/L	8
004	08562-MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.014	JP	ug/L	8
011	08562-MW-1	Aqueous	Benzene	8260B	410		ug/L	15
011	08562-MW-1	Aqueous	Ethylbenzene	8260B	2900		ug/L	15
011	08562-MW-1	Aqueous	Naphthalene	8260B	670		ug/L	15
011	08562-MW-1	Aqueous	Toluene	8260B	13000		ug/L	15
011	08562-MW-1	Aqueous	Xylenes (total)	8260B	18000		ug/L	15
011	08562-MW-1	Aqueous	1,2-Dibromoethane (EDB)	8011	2.8		ug/L	15
012	08562-MW-3	Aqueous	Ethylbenzene	8260B	2300		ug/L	16
012	08562-MW-3	Aqueous	Naphthalene	8260B	330		ug/L	16
012	08562-MW-3	Aqueous	Toluene	8260B	640		ug/L	16
012	08562-MW-3	Aqueous	Xylenes (total)	8260B	7400		ug/L	16
013	08562-MW-5	Aqueous	Benzene	8260B	14000		ug/L	17
013	08562-MW-5	Aqueous	Ethylbenzene	8260B	3200		ug/L	17
013	08562-MW-5	Aqueous	Naphthalene	8260B	480	J	ug/L	17
013	08562-MW-5	Aqueous	Toluene	8260B	49000		ug/L	17
013	08562-MW-5	Aqueous	Xylenes (total)	8260B	17000		ug/L	17
013	08562-MW-5	Aqueous	1,2-Dibromoethane (EDB)	8011	300		ug/L	17
014	08562-MW-5 Duplicate	Aqueous	Benzene	8260B	14000		ug/L	18
014	08562-MW-5 Duplicate	Aqueous	Ethylbenzene	8260B	2900		ug/L	18
014	08562-MW-5 Duplicate	Aqueous	Naphthalene	8260B	410	J	ug/L	18
014	08562-MW-5 Duplicate	Aqueous	Toluene	8260B	47000		ug/L	18
014	08562-MW-5 Duplicate	Aqueous	Xylenes (total)	8260B	16000		ug/L	18
014	08562-MW-5 Duplicate	Aqueous	1,2-Dibromoethane (EDB)	8011	270		ug/L	18
015	08562-MW-8	Aqueous	1,2-Dibromoethane (EDB)	8011	0.0084	JP	ug/L	19
016	08562-MW-11	Aqueous	Methyl tertiary butyl ether	8260B	2.3		ug/L	20
018	08562-MW-15	Aqueous	Benzene	8260B	2600		ug/L	22
018	08562-MW-15	Aqueous	Ethylbenzene	8260B	7000		ug/L	22
018	08562-MW-15	Aqueous	Naphthalene	8260B	1600		ug/L	22
018	08562-MW-15	Aqueous	Toluene	8260B	42000		ug/L	22
018	08562-MW-15	Aqueous	Xylenes (total)	8260B	42000		ug/L	22
018	08562-MW-15	Aqueous	1,2-Dibromoethane (EDB)	8011	44		ug/L	22
022	08562-MW-22	Aqueous	Benzene	8260B	0.56	J	ug/L	26
022	08562-MW-22	Aqueous	Methyl tertiary butyl ether	8260B	1.1		ug/L	26
024	08562-VMW-1	Aqueous	Benzene	8260B	0.65	J	ug/L	28
024	08562-VMW-1	Aqueous	Toluene	8260B	1.2		ug/L	28
024	08562-VMW-1	Aqueous	Xylenes (total)	8260B	0.40	J	ug/L	28

(41 detections)

Client: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-001**

Description: **08562-MW-6** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1610**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1055	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0842	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-002**

Description: **08562-MW-6 Duplicate** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1611**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1117	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0853	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		79	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-003**

Description: **08562-MW-9R** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1321**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1139	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0903	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-004**

Description: **08562-MW-13** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1421**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1201	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**19**	**J**	**20**	**8.0**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	**71-43-2**	**8260B**	**6.4**		**1.0**	**0.40**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**2.5**		**1.0**	**0.40**	**ug/L**	**1**
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**4.3**		**1.0**	**0.40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**2.0**		**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0914	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.014**	**JP**	**0.020**	**0.0050**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		57	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-005**

Description: **08562-MW-14R** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1343**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1732	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0925	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-006**

Description: **08562-MW-17** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1221**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1222	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0936	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		67	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-007**

Description: **08562-MW-19** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1347**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1245	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0946	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		59	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-008**

Description: **08562-MW-24** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1557**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1307	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 0957	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-009**

Description: **08562-MW-25** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1420**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1329	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1008	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-010**

Description: **08562-Field Blank 1** Matrix: **Aqueous**

Date Sampled: **08/16/2017 1628**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1033	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1019	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		62	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-011**

Description: **08562-MW-1** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1318**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	08/21/2017 1541	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	84	ug/L	1
Benzene	**71-43-2**	**8260B**	**410**		**200**	**80**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	8000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2900**		**200**	**80**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		200	80	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**670**		**200**	**80**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	**108-88-3**	**8260B**	**13000**		**200**	**80**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**18000**		**200**	**80**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	10	08/23/2017 1300	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**2.8**		**0.20**	**0.050**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-012**

Description: **08562-MW-3** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1415**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	08/21/2017 1604	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	42	ug/L	1
Benzene	71-43-2	8260B	ND		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	4000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2300**		**100**	**40**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**330**		**100**	**40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	**108-88-3**	**8260B**	**640**		**100**	**40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**7400**		**100**	**40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		110	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1040	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		68	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-013**

Description: **08562-MW-5** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1340**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	08/21/2017 1626	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20000	8000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10000	420	ug/L	1
Benzene	**71-43-2**	**8260B**	**14000**		**1000**	**400**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5000	2000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1000	400	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	400	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20000	8000	ug/L	1
Ethanol	64-17-5	8260B	ND		100000	40000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3200**		**1000**	**400**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	400	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1000	400	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**480**	**J**	**1000**	**400**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20000	8000	ug/L	1
Toluene	**108-88-3**	**8260B**	**49000**		**1000**	**400**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**17000**		**1000**	**400**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1000	08/24/2017 0818	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**300**		**19**	**4.9**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-014**

Description: **08562-MW-5 Duplicate** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1341**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	08/21/2017 1648	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20000	8000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10000	420	ug/L	1
Benzene	**71-43-2**	**8260B**	**14000**		**1000**	**400**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5000	2000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1000	400	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	400	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20000	8000	ug/L	1
Ethanol	64-17-5	8260B	ND		100000	40000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2900**		**1000**	**400**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	400	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1000	400	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**410**	**J**	**1000**	**400**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20000	8000	ug/L	1
Toluene	**108-88-3**	**8260B**	**47000**		**1000**	**400**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**16000**		**1000**	**400**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1000	08/24/2017 0828	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**270**		**20**	**4.9**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-015**

Description: **08562-MW-8** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1019**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1351	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1113	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.0084**	**JP**	**0.020**	**0.0050**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		67	57-137

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: **Blue Ridge Environmental Services** | Laboratory ID: **SH18034-016**

Description: **08562-MW-11** | Matrix: **Aqueous**

Date Sampled: **08/17/2017 1036**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1413	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**2.3**		**1.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1123	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-017**

Description: **08562-MW-12** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1050**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1435	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1206	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-018**

Description: **08562-MW-15** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1307**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	08/21/2017 1710	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20000	8000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10000	420	ug/L	1
Benzene	**71-43-2**	**8260B**	**2600**		**1000**	**400**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5000	2000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1000	400	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	400	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20000	8000	ug/L	1
Ethanol	64-17-5	8260B	ND		100000	40000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**7000**		**1000**	**400**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	400	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1000	400	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**1600**		**1000**	**400**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20000	8000	ug/L	1
Toluene	**108-88-3**	**8260B**	**42000**		**1000**	**400**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**42000**		**1000**	**400**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	200	08/24/2017 0850	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**44**		**4.1**	**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-019**

Description: **08562-MW-16** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1212**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1457	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1227	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-020**

Description: **08562-MW-18** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1441**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1519	BWS		49597

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/23/2017 1238	DAL1	08/22/2017 2215	49742

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		79	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-021**

Description: **08562-MW-21** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1512**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1229	BWS		49600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		80	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/24/2017 0932	DAL1	08/22/2017 2215	49744

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		79	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-022**

Description: **08562-MW-22** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1252**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1253	BWS		49600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	**71-43-2**	**8260B**	**0.56**	**J**	**1.0**	**0.40**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1.1**		**1.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/24/2017 0943	DAL1	08/22/2017 2215	49744

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		60	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-023**

Description: **08562-MW-23** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1059**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1317	BWS		49600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		80	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/24/2017 0954	DAL1	08/22/2017 2215	49744

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-024**

Description: **08562-VMW-1** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1358**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1342	BWS		49600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	**71-43-2**	**8260B**	**0.65**	**J**	**1.0**	**0.40**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	**108-88-3**	**8260B**	**1.2**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**0.40**	**J**	**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/24/2017 1005	DAL1	08/22/2017 2215	49744

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		74	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-025**

Description: **08562-Field Blank 2** Matrix: **Aqueous**

Date Sampled: **08/17/2017 1520**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1049	BWS		49600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	08/24/2017 1015	DAL1	08/22/2017 2215	49744

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		76	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **SH18034-026**

Description: **08562-Trip Blank** Matrix: **Aqueous**

Date Sampled: **08/17/2017**

Date Received: **08/18/2017**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/21/2017 1114	BWS		49600

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		91	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: SQ49597-001
Batch: 49597
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	08/21/2017 0952
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	08/21/2017 0952
Benzene	ND		1	1.0	0.40	ug/L	08/21/2017 0952
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	08/21/2017 0952
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	08/21/2017 0952
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	08/21/2017 0952
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	08/21/2017 0952
Ethanol	ND		1	100	40	ug/L	08/21/2017 0952
Ethylbenzene	ND		1	1.0	0.40	ug/L	08/21/2017 0952
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	08/21/2017 0952
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	08/21/2017 0952
Naphthalene	ND		1	1.0	0.40	ug/L	08/21/2017 0952
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	08/21/2017 0952
Toluene	ND		1	1.0	0.40	ug/L	08/21/2017 0952
Xylenes (total)	ND		1	1.0	0.40	ug/L	08/21/2017 0952

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		109	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ49597-002
Batch: 49597
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	850		1	85	70-130	08/21/2017 0855
tert-Amyl methyl ether (TAME)	50	53		1	106	70-130	08/21/2017 0855
Benzene	50	46		1	92	70-130	08/21/2017 0855
tert-Butyl formate (TBF)	250	220		1	88	70-130	08/21/2017 0855
1,2-Dichloroethane	50	52		1	105	70-130	08/21/2017 0855
Diisopropyl ether (IPE)	50	48		1	95	70-130	08/21/2017 0855
3,3-Dimethyl-1-butanol	1000	740		1	74	60-140	08/21/2017 0855
Ethanol	5000	3800		1	75	60-140	08/21/2017 0855
Ethylbenzene	50	52		1	104	70-130	08/21/2017 0855
Ethyl-tert-butyl ether (ETBE)	50	45		1	90	70-130	08/21/2017 0855
Methyl tertiary butyl ether (MTBE)	50	46		1	91	70-130	08/21/2017 0855

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ49597-002
Batch: 49597
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	49		1	98	70-130	08/21/2017 0855
tert-butyl alcohol (TBA)	1000	920		1	92	70-130	08/21/2017 0855
Toluene	50	52		1	103	70-130	08/21/2017 0855
Xylenes (total)	100	95		1	95	70-130	08/21/2017 0855

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS - MS

Sample ID: SH18034-018MS
Batch: 49597
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	1000000	780000		1000	78	70-130	08/21/2017 1755
tert-Amyl methyl ether (TAME)	ND	50000	47000		1000	93	70-130	08/21/2017 1755
Benzene	2600	50000	49000		1000	92	70-130	08/21/2017 1755
tert-Butyl formate (TBF)	ND	250000	190000		1000	78	70-130	08/21/2017 1755
1,2-Dichloroethane	ND	50000	49000		1000	98	70-130	08/21/2017 1755
Diisopropyl ether (IPE)	ND	50000	45000		1000	91	70-130	08/21/2017 1755
3,3-Dimethyl-1-butanol	ND	1000000	630000		1000	63	60-140	08/21/2017 1755
Ethanol	ND	5000000	2900000	N	1000	58	60-140	08/21/2017 1755
Ethylbenzene	7000	50000	85000	N	1000	156	70-130	08/21/2017 1755
Ethyl-tert-butyl ether (ETBE)	ND	50000	39000		1000	79	70-130	08/21/2017 1755
Methyl tertiary butyl ether (MTBE)	ND	50000	40000		1000	80	70-130	08/21/2017 1755
Naphthalene	1600	50000	52000		1000	101	70-130	08/21/2017 1755
tert-butyl alcohol (TBA)	ND	1000000	810000		1000	81	70-130	08/21/2017 1755
Toluene	42000	50000	140000	N	1000	194	70-130	08/21/2017 1755
Xylenes (total)	42000	100000	270000	N	1000	231	70-130	08/21/2017 1755

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: SH18034-018MD
Batch: 49597
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	1000000	790000		1000	79	0.97	70-130	20	08/21/2017 1817
tert-Amyl methyl ether (TAME)	ND	50000	50000		1000	99	6.3	70-130	20	08/21/2017 1817
Benzene	2600	50000	49000		1000	94	1.7	70-130	20	08/21/2017 1817
tert-Butyl formate (TBF)	ND	250000	210000		1000	83	5.9	70-130	20	08/21/2017 1817
1,2-Dichloroethane	ND	50000	51000		1000	102	4.0	70-130	20	08/21/2017 1817
Diisopropyl ether (IPE)	ND	50000	46000		1000	93	2.1	70-130	20	08/21/2017 1817
3,3-Dimethyl-1-butanol	ND	1000000	650000		1000	65	3.1	60-140	20	08/21/2017 1817
Ethanol	ND	5000000	3200000		1000	63	9.2	60-140	20	08/21/2017 1817
Ethylbenzene	7000	50000	67000	+	1000	121	23	70-130	20	08/21/2017 1817
Ethyl-tert-butyl ether (ETBE)	ND	50000	42000		1000	84	6.4	70-130	20	08/21/2017 1817
Methyl tertiary butyl ether (MTBE)	ND	50000	44000		1000	87	9.3	70-130	20	08/21/2017 1817
Naphthalene	1600	50000	51000		1000	100	0.95	70-130	20	08/21/2017 1817
tert-butyl alcohol (TBA)	ND	1000000	850000		1000	85	5.2	70-130	20	08/21/2017 1817
Toluene	42000	50000	110000	N,+	1000	136	23	70-130	20	08/21/2017 1817
Xylenes (total)	42000	100000	180000	N,+	1000	138	41	70-130	20	08/21/2017 1817

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ49600-001
Batch: 49600
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	08/21/2017 1009
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	08/21/2017 1009
Benzene	ND		1	1.0	0.40	ug/L	08/21/2017 1009
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	08/21/2017 1009
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	08/21/2017 1009
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	08/21/2017 1009
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	08/21/2017 1009
Ethanol	ND		1	100	40	ug/L	08/21/2017 1009
Ethylbenzene	ND		1	1.0	0.40	ug/L	08/21/2017 1009
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	08/21/2017 1009
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	08/21/2017 1009

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: SQ49600-001
Batch: 49600
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Naphthalene	ND		1	1.0	0.40	ug/L	08/21/2017 1009
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	08/21/2017 1009
Toluene	ND		1	1.0	0.40	ug/L	08/21/2017 1009
Xylenes (total)	ND		1	1.0	0.40	ug/L	08/21/2017 1009

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ49600-002
Batch: 49600
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	101	70-130	08/21/2017 0907
tert-Amyl methyl ether (TAME)	50	50		1	100	70-130	08/21/2017 0907
Benzene	50	51		1	102	70-130	08/21/2017 0907
tert-Butyl formate (TBF)	250	260		1	105	70-130	08/21/2017 0907
1,2-Dichloroethane	50	52		1	104	70-130	08/21/2017 0907
Diisopropyl ether (IPE)	50	50		1	101	70-130	08/21/2017 0907
3,3-Dimethyl-1-butanol	1000	1000		1	101	60-140	08/21/2017 0907
Ethanol	5000	4900		1	98	60-140	08/21/2017 0907
Ethylbenzene	50	52		1	105	70-130	08/21/2017 0907
Ethyl-tert-butyl ether (ETBE)	50	50		1	100	70-130	08/21/2017 0907
Methyl tertiary butyl ether (MTBE)	50	50		1	101	70-130	08/21/2017 0907
Naphthalene	50	52		1	103	70-130	08/21/2017 0907
tert-butyl alcohol (TBA)	1000	1000		1	103	70-130	08/21/2017 0907
Toluene	50	51		1	103	70-130	08/21/2017 0907
Xylenes (total)	100	100		1	104	70-130	08/21/2017 0907

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: SQ49742-001
Batch: 49742
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 08/22/2017 2215

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	08/23/2017 0810

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		107	57-137

EDB & DBCP by Microextraction - LCS

Sample ID: SQ49742-002
Batch: 49742
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 08/22/2017 2215

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	91	60-140	08/23/2017 0821

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		103	57-137

EDB & DBCP by Microextraction - MS

Sample ID: SH18034-016MS
Batch: 49742
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 08/22/2017 2215

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.18		1	74	60-140	08/23/2017 1134

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MSD

Sample ID: SH18034-016MD
Batch: 49742
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 08/22/2017 2215

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.21		1	83	13	60-140	20	08/23/2017 1155

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		91	57-137

EDB & DBCP by Microextraction - MB

Sample ID: SQ49744-001
Batch: 49744
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 08/22/2017 2215

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	08/24/2017 0911

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		92	57-137

EDB & DBCP by Microextraction - LCS

Sample ID: SQ49744-002
Batch: 49744
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 08/22/2017 2215

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.22		1	87	60-140	08/24/2017 0922

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		89	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody
and
Miscellaneous Documents

Blue Ridge Environmental Services, Inc.

CHAIN OF CUSTODY

South Carolina

Page 1 of 2

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
FAX 704-482-4335
E-mail: BRESI@BlueRidge-ESI.com

SH18034

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 17-6023.1

LAB: Shealy

SAMPLERS: Ken Pimienta/Jeff White

PROJECT MANAGER:

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX, Naph, MTBE, 1,2DCA Oxygenates (8260B)	EDB 8011					
08562-MW-6	8/16/17	1610		X	ground water sample	HCl	6	X	X					
08562-MW-6 Duplicate		1611		X			6	X	X					
08562-MW-9R		1321		X			6	X	X					
08562-MW-13		1421		X			6	X	X					
08562-MW-14R		1343		X			6	X	X					
08562-MW-17		1221		X			6	X	X					
08562-MW-19		1347		X			6	X	X					
08562-MW-24		1557		X			6	X	X					
08562-MW-25		1420		X			6	X	X					
08562-Field Blank 1		1628		X			6	X	X					T=2.2°C
08562-MW-1	8/17/17	1318		X			6	X	X					
08562-MW-3		1415		X			6	X	X					Hot Sample
08562-MW-5		1340		X			6	X	X					Hot Sample
08562-MW-5 Duplicate		1341		X			6	X	X					Hot Sample

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Ken Pimienta	8/18/17	1220	[signature]	8.18.17	1220
[signature]	8.18.17	1545	[signature]	8-18-17	1545
[signature]	8-18-17	1700	[signature] S. Elliott	8-18-17	1700

SAE 8/21/17

Blue Ridge Environmental Services, Inc.

2315 Kings Road Extension
Shelby, North Carolina 28152
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E-mail: BRES1@BlueRidge-ESI.com

CHAIN OF CUSTODY Page 2 of 2

South Carolina

PROJECT NAME/LOCATION: Rhodes Service Station
GROUNDWATER INCIDENT #:
STF CODE:
P.O.#: 17-6023.1
LAB: Shealy

SAMPLERS: Ken Pinianta/Jeff White
PROJECT MANAGER:

SH18034

SAMPLE ID	DATE	TIME	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX, MTBE, 1,2-DCA, Naphthalene, Oxygenates (8260B)	EDB (8011)	
08562 - MW-8	8/17/17	1019		X	Groundwater Sample	HCL	6	X	X	
08562 - MW-11	"	1036		X	"	"	6	X	X	
08562 - MW-12		1050		X			6	X	X	
08562 - MW-15		1307		X			6	X	X	Hot Sample
08562 - MW-16		1212		X			6	X	X	
08562 - MW-18		1441		X			6	X	X	
08562 - MW-21		1512		X			6	X	X	
08562 - MW-22		1252		X			6	X	X	
08562 - MW-23		1059		X			6	X	X	
08562 - MW-1		1358		X			6	X	X	
08562 - 2 Field Blank		1520		X			6	X	X	
08562 - Trip Blank	▼	—		X	▼	▼	2	X		
										T=2.2°C

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Ken Pinianta	8/18/17	1220	[signature]	8.18.17	1220
[signature]	8-18-17	1645	[signature]	8-18-17	1645
[signature]	8-18-17	1700	[signature]	8/18/17	1720

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Shealy Environmental Services, Inc
Document Number: ME0018C-09

Page 1 of 1
Effective Date: 07/28/2017
Expiry Date: 07/28/2022

Sample Receipt Checklist (SRC)

Client: Blue Ridge Environ. Cooler Inspected by/date: ELC 8-18-17 Lot #: SH18034

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other _____

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	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:

___/___/___°C 12.2/12.2 °C ___/___/___°C ___/___/___°C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	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 ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☐	No ☑		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	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 ☐	No ☑		22. Was the quote number used taken from the container label?

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_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) see comments were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) 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: ELC Date: 8-18-17

Comments: MW-6 dup (2), MW-17 (1), FB#1 (4), MW-3 (1), UMW-1 (2), TB (2)

~~Rec'd by 1 of 2 from field service, 0 of 2 samples were pre-logged using pictures from field~~ SBC 8/21/17

COC found stapled to another lot

APPENDIX C

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CESQG

Manifest Document No.: 10854

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Sevice Station
410 Spartanburg Hwy South
Wellford, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc
6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1
A. State Transporter's ID
B. Transporter 1 Phone: (864) 488-9111

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307
10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1
E. State Facility's ID
F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	T P	0 0 0 3 0	G
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) L/-

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact: David Hitchens 864-488-9111, Cell 864-590-4648
AEO Job #13753 PO#: 17-1639.1 Mail all original (Top) copy of manifest to Blue Ridge Environmental.

GENERATOR

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 Month	Day	Year
Jeffrey A. White		8	28	17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Jeffrey A. White		8	28	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

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 Month	Day	Year
Randy Richard		8	22	17

NON-HAZARDOUS WASTE

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APPENDIX D

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
SC Contractor # 0095
BRESI@BlueRidge-ESI.com

Rhodes Service Station (Former)
UST Permit Number: 08562

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

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Rhodes Service Station (Former)
UST Permit Number: 08562

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		

Explanation for missing and incomplete information?

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SC Contractor # 0095
Email: BRESI@BlueRidge-ESI.com

Explanation for missing and incomplete information

- Please note monitoring wells 08562-MW-2, 08562-MW-10 and 08562-VMW-2 were unable to be located during this assessment. Blue Ridge personnel made an effort to locate the wells with a metal detector, but where unsuccessful in finding them. Therefore, no samples were collected.

- No samples were collected from monitoring wells 08562-MW-7 and 08562-MW-20 because the wells appear to have been destroyed due to previous construction activities.

- 08562-MW-4 contained approximately 0.29 feet of FPP and therefore was not sampled.

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

October 14, 2009

Ms. Maia Milenkova
UST Program
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Rhodes Service Station
410 Spartanburg Highway
Welford, SC 29365
UST Permit # 08562

Dear Ms. Milenkova:

The purpose of this correspondence is to present the results of two AFVR and one groundwater sampling event performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 36169. Two AFVR events were conducted on monitor wells MW-4 and MW-15 on August 24, 2009 and September 10, 2009. Per a correspondence from your office dated July 22, 2009. The AFVR was conducted by Advanced Environmental Options (AEO) under the direct supervision of Blue Ridge Environmental Services Inc.. AEO utilized a Hydro-Vac Series 2000 high vacuum positive displacement blower vacuum truck capable of a maximum of 800 CFM (640 CFM at 15 inches of mercury) and maximum of 27 inches of mercury.

The tables below provide the duration of the total volume of fluids recovered during the AFVR events, the total weight of free product recovered as vapor during the events and the amount of calculated gallons of fluids recovered.

Recycled Paper

UST DOCKET
2 technical

Rhodes Service Station
Spartanburg County
October 14, 2009

Total Volume of Fluids Recovered AFVR #1
August 24, 2009

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
MW-4 MW-15	8/24/09	8	56	897	39.76

Total Volume of Fluids Recovered AFVR #2
September 10, 2009

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
MW-4 MW-15	9/10/09	8	54	866	39.62

Please refer to the appendixes for field data record tables, total emissions tables and copies of the disposal manifests from the AFVR events conducted. The following tables provide pre-recovery and post recovery depth to water and depth to product levels in specific on-site monitoring wells. The product/water levels were determined using an interface probe.

Pre/Post Event Water Levels
Pre/Post Event Water Levels AFVR #1
August 24, 2009

Well ID	Stinger Depth (ft)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (.ft)
MW-4	21	16.66	20.48	3.82	N/A	21.00	N/A
MW-15	20	17.62	19.36	1.74	N/A	19.88	N/A

Pre/Post Event Water Levels
Pre/Post Event Water Levels AFVR #2
September 10, 2009

Well ID	Stinger Depth (ft)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (.ft)
MW-4	20	18.45	18.63	.18	N/A	19.15	N/A
MW-15	19	17.94	18.21	.27	N/A	18.73	N/A

Please note that Post-Event Water Levels were taken approximately twenty minutes after each AFVR Event was completed. The locations of all monitor wells are illustrated on Figure 2.

On September 15, 2009, Blue Ridge mobilized to the site for the purpose of sampling monitor wells MW-1, MW-2, MW-5, MW-6, MW-8, MW-10 through MW-12, MW-15 through MW-17 and VMW-1. Groundwater samples were obtained from each of these locations and sampled by Method 8260B for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates, Method 8011 for EDB, Method 7421 for lead. Please note that monitor wells MW-3, MW-7, MW-9, MW-13, MW-14, MW-18 and MW-19 could not be located and therefore no groundwater samples were collected from these locations. In addition monitor wells MW-4 and MW-15 had a reported free phase product (FPP) thickness of .18 ft and .27 ft. respectively during the time of the sampling.

Static water levels were recorded on September 15, 2009 from each of the wells sampled. The depth to water ranged between 17.22 feet @ MW-6 to 20.58 feet below grade level @ MW-8. Based on the current static water levels obtained during this assessment, the direction of groundwater was calculated primarily to the north, which is consistent with the historical groundwater flow direction. Refer to Table 1 - Relative Groundwater Elevations and Figure 3 - Groundwater Contour Map.

Please note that a significant amount of time has elapsed since the last sampling event occurred on June 20, 2002. The results of the sampling indicated that dissolved phase hydrocarbon contaminant levels are present onsite. Of the eleven monitor wells sampled in association with the Rhodes Service Station site, all monitoring wells sampled (MW-1, MW-2, MW-5, MW-6, MW-8, MW-10 through MW-12, MW-15 through MW-17 and VMW-1) had detectable concentrations of BTEX, MTBE, naphthalene EDB and lead constituents above RBSL's for one or more constituent. The highest COC's were reported in monitor well MW-5 with a total BTEX level of 97,300 ug/L, EDB at 500 ug/L and lead at 1.3 mg/L. Please refer to Table 2 for a summary of the analytical results at each location and Figure 4 - Contaminant Concentration Map. Field measurement data sheets are enclosed as Appendix D and a copy analytical report is included as Appendix E.

The locations of all monitor wells are illustrated on Figure 2. Based on the groundwater elevations obtained on September 15, 2009, Blue Ridge recommends that monitor wells

MW-3, MW-8, MW-9, MW-13, MW-14, MW-18 and MW-19 be reinstalled prior to the next sampling event, to ensure the contaminate plume remains defined.

If you should have any questions regarding this correspondence, please contact me at (704) 482-2111.

Sincerely,
Blue Ridge Environmental Services, Inc.

Kenneth A. Pimienta
Geologist

Joseph W. McMurray, PG
S.C. Registration #2111

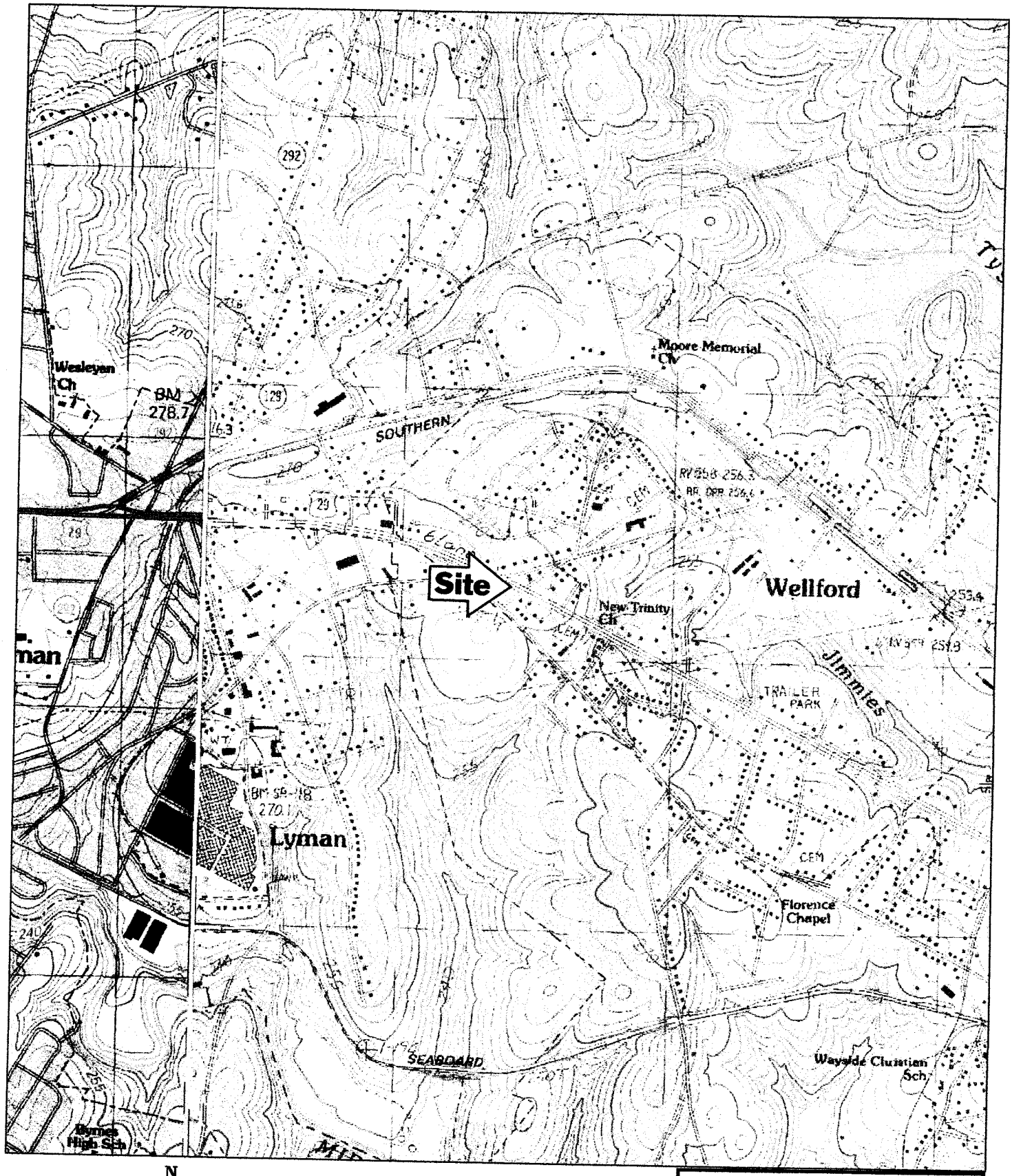
Enclosures

Figures
Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Groundwater Contour Map
Figure 4: Contaminant Concentration Map

Tables
1. Relative Groundwater Elevations
2. Select Summary of Groundwater Laboratory Analytical Results
3. Select Summary of Oxygenates Analytical Results

Appendixes
A. Field Data Record Tables
B. Total Emissions Tables
C. Disposal Manifest
D. Field Data Sheets
E. Analytical Report

FIGURES



Rhodes Service Station
Figure 1
Site Location Map

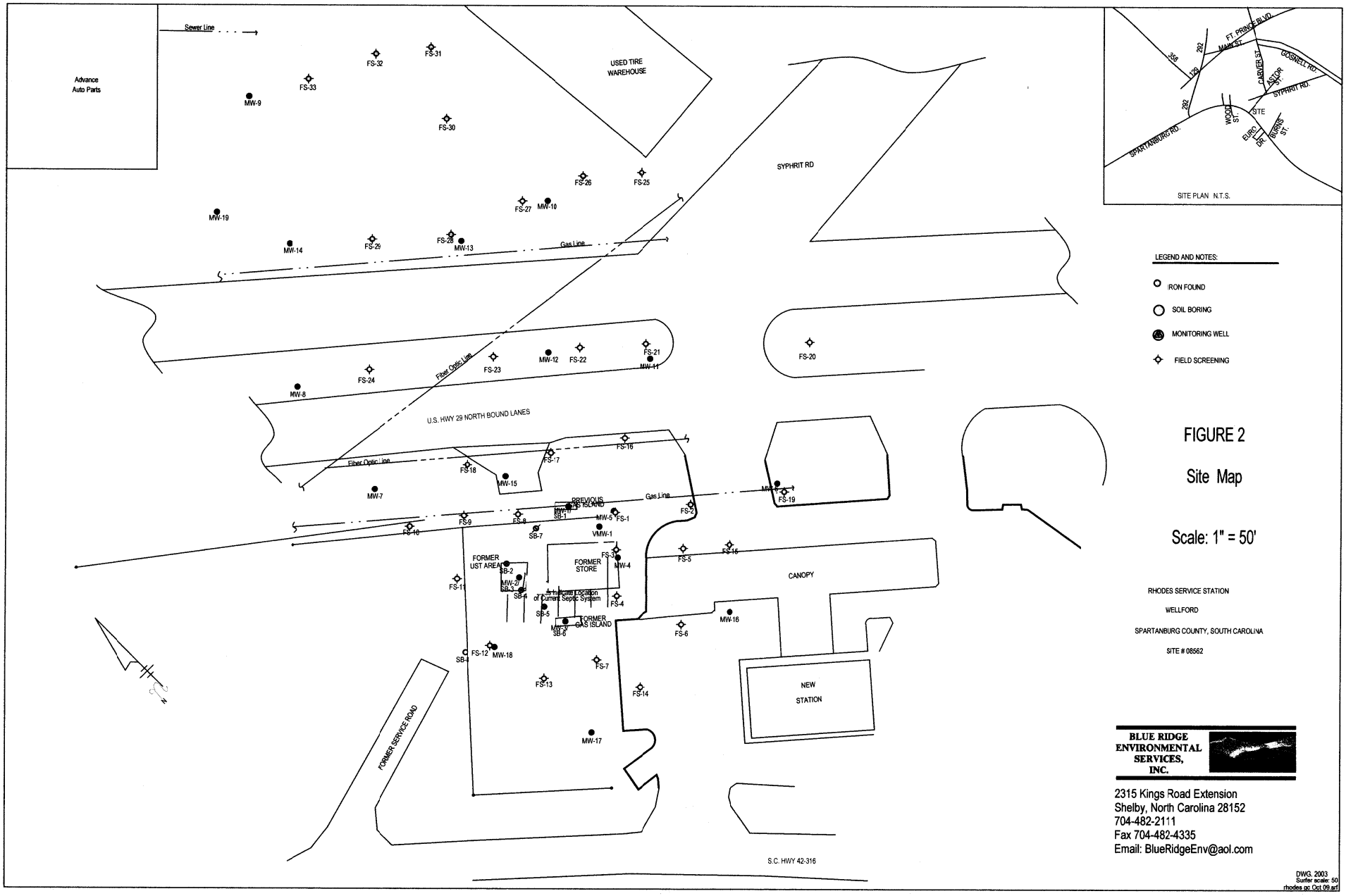


FIGURE 2

Site Map

Scale: 1" = 50'

RHODES SERVICE STATION

WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

DWG. 2003
Surfer scale: 50
rhodes gc Oct 09.srf

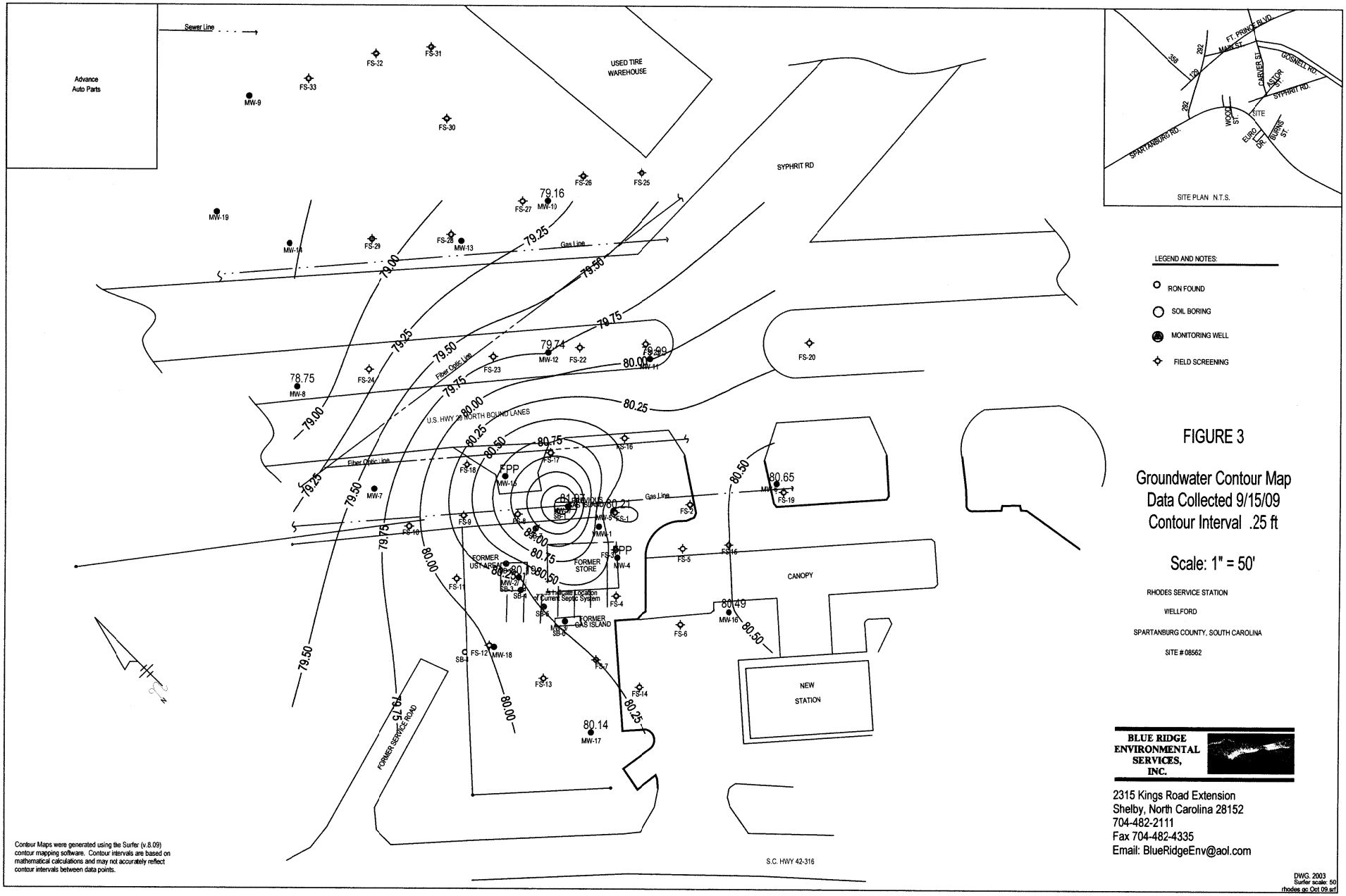


FIGURE 3

Groundwater Contour Map
Data Collected 9/15/09
Contour Interval .25 ft

Scale: 1" = 50'

RHODES SERVICE STATION

WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

Contour Maps were generated using the Surfer (v.8.09) contour mapping software. Contour intervals are based on mathematical calculations and may not accurately reflect contour intervals between data points.

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

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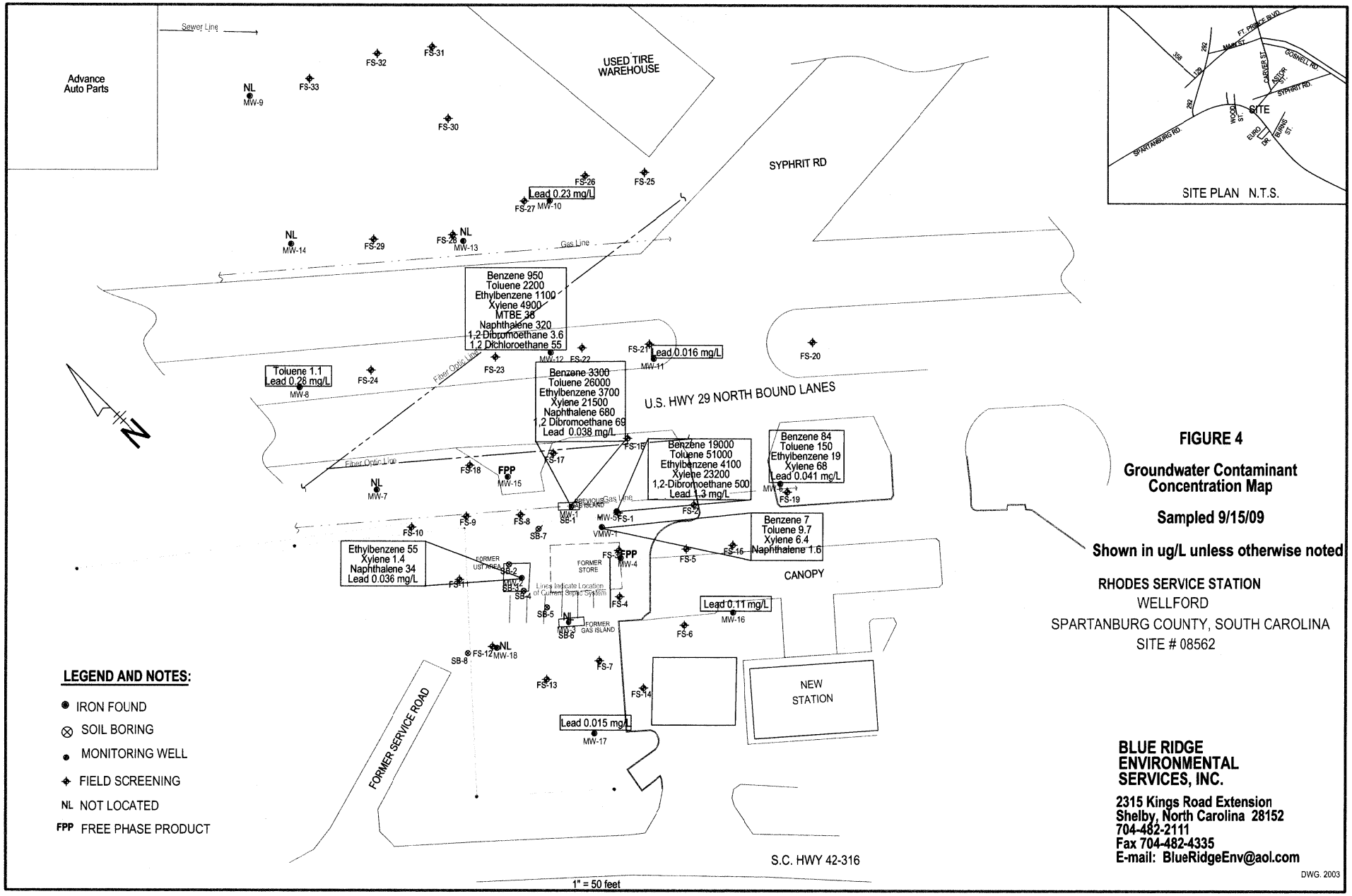
DWG. 2003
Surfer scale: 50
rhodes gc Oct 09.srf



LEGEND AND NOTES:

- IRON FOUND
- SOIL BORING
- MONITORING WELL
- FIELD SCREENING
- NL NOT LOCATED
- FPP FREE PHASE PRODUCT

FIGURE 4

Groundwater Contaminant Concentration Map

Sampled 9/15/09

Shown in ug/L unless otherwise noted

RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
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DWG. 2003

C:\DOCUMENTS AND SETTINGS\BETH MCDANIEL\MY DOCUMENTS\CADD MAPS\rhodes gco Oct 09.VCD 10/13/2009

TABLES

TABLE 1
Relative Groundwater Elevations

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

		Date:	1/21/2000	4/23/2001	11/20/2001	6/20/2002	9/15/2009
Well No.	**MW-1**	TD: 25'					
TOC Elevation			100.00	100.00	100.00	100.00	100.00
Groundwater Level			17.91	17.49	19.41	18.12	18.03
Groundwater Elevation (ft.)			***82.09***	***82.51***	***80.59***	***81.88***	***81.97***
Well No.	**MW-2**	TD: 25'					
TOC Elevation			99.04	99.04	99.04	99.04	99.04
Groundwater Level			18.02	17.92	20.03	18.82	18.85
Groundwater Elevation (ft.)			***81.020***	***81.120***	***79.01***	***80.22***	***80.19***
Well No.	**MW-3**	TD: 25'					**NL**
TOC Elevation			99.57	99.57	99.57	99.57	99.57
Groundwater Level			17.45	18.16	19.77	18.09	NA
Groundwater Elevation (ft.)			***82.12***	***81.41***	***79.8***	***81.48***	NA
Well No.	**MW-4**	TD: 30'					
TOC Elevation				98.65	98.65	98.65	98.65
Groundwater Level				FPP	FPP	FPP	FPP
Groundwater Elevation (ft.)							
Well No.	**MW-5**	TD: 30'					
TOC Elevation				97.85	97.85	97.85	97.85
Groundwater Level				17.2	19.12	17.84	17.64
Groundwater Elevation (ft.)				***80.65***	***78.73***	***80.01***	***80.21***
Well No.	**MW-6**	TD: 30'					
TOC Elevation				97.87	97.87	97.87	97.87
Groundwater Level				16.93	18.82	17.59	17.22
Groundwater Elevation (ft.)				***80.94***	***79.05***	***80.28***	***80.65***
Well No.	**MW-7**	TD: 30'					**NL**
TOC Elevation				97.26	97.26	97.26	97.26
Groundwater Level				17.86	19.5	18.18	NA
Groundwater Elevation (ft.)				***79.4***	***77.76***	***79.08***	NA
Well No.	**MW-8**	TD: 30'					
TOC Elevation				99.33	99.33	99.33	99.33
Groundwater Level				20.92	22.1	19.72	20.58
Groundwater Elevation (ft.)				***78.41***	***77.23***	***79.61***	***78.75***
Well No.	**MW-9**	TD: 35'					**NL**
TOC Elevation				98.7	98.7	98.7	98.7
Groundwater Level				20.46	couldn't	21.69	NA
Groundwater Elevation (ft.)				***78.24***	locate	***77.01***	NA

Well No.	**MW-10**	TD: 30'					
TOC Elevation				98.71	98.71	98.71	98.71
Groundwater Level				19.04	21.03	19.68	19.55
Groundwater Elevation (ft.)				***79.67***	***77.68***	***79.03***	***79.16***
Well No.	**MW-11**	TD: 27'					
TOC Elevation				98.49	98.49	98.49	98.49
Groundwater Level				18.39	19.98	18.7	18.5
Groundwater Elevation (ft.)				***80.1***	***78.51***	***79.79***	***79.99***
Well No.	**MW-12**	TD: 30'					
TOC Elevation				97.75	97.75	97.75	97.75
Groundwater Level				18.21	19.47	18.19	18.01
Groundwater Elevation (ft.)				***79.54***	***78.28***	***79.56***	***79.74***
Well No.	**MW-13**	TD: 35'					**NL**
TOC Elevation				99.3	99.3	99.3	99.3
Groundwater Level				19.94	21.85		NA
Groundwater Elevation (ft.)				***79.36***	***77.45***		NA
Well No.	**MW-14**	TD: 35'					**NL**
TOC Elevation				100.29	100.29	100.29	100.29
Groundwater Level				21.54	23.42		NA
Groundwater Elevation (ft.)				***78.75***	***76.87***		NA
Well No.	**MW-15**	TD: 30'					
TOC Elevation				97.79	97.79	97.79	97.79
Groundwater Level				FPP	FPP	FPP	FPP
Groundwater Elevation (ft.)							
Well No.	**MW-16**	TD: 30'					
TOC Elevation				98.68	98.68	98.68	98.68
Groundwater Level				17.87	19.7	18.5	18.19
Groundwater Elevation (ft.)				***80.81***	***78.98***	***80.18***	***80.49***
Well No.	**MW-17**	TD: 30'					
TOC Elevation				98.89	98.89	98.89	98.89
Groundwater Level				18.29	20.05	18.83	18.75
Groundwater Elevation (ft.)				***80.6***	***78.84***	***80.06***	***80.14***
Well No.	**MW-18**	TD: 30'					**NL**
TOC Elevation				98.43	98.43	98.43	98.43
Groundwater Level				18.12	19.88	18.61	NA
Groundwater Elevation (ft.)				***80.31***	***78.55***	***79.82***	NA
Well No.	**MW-19**						**NL**
TOC Elevation							
Groundwater Level						21.86	NA
Groundwater Elevation (ft.)							NA
Well No.	**VMW-1**	TD: 60'					
TOC Elevation				98.32	98.32	98.32	98.32
Groundwater Level					25.96	20.48	19.28
Groundwater Elevation (ft.)				***98.32***	***72.36***	***77.84***	***79.04***
Notes:	**FPP - Free Phase Product**						
	NL - Not Located						
	NA - Not Applicable				***0***	***0***	***0***

Table 2
Select Summary of Groundwater Laboratory Analytical Results*
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:		1/21/2000	4/24/2001	11/20/2001	9/15/2009
Well No:	MW-1				
Benzene		21000	12400	19100	3300
Toluene		85000	38000	49800	26000
Ethylbenzene		2800	1660	3800	3700
Xylene		21000	13600	21900	21500
Total BTEX		*129800*	*65660*	*94600*	*54500*
MTBE		ND	ND	ND	BRL
Naphthalene		460	434	530	680
1,2-Dibromoethane		NA	835	NA	69
1,2-Dichlorethane					BRL
Methane		NA	ND	NA	NA
Lead*		2.3	1.98	2.32	0.038
Iron*		0.79	1.36	NA	NA
Nitrite*		ND	ND	NA	NA
Nitrate*		0.26	ND	NA	NA
Sulfate*		ND	1.45	NA	NA
Sampling Date:		**1/21/2000**	**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-2				
Benzene		9	ND	ND	BRL
Toluene		1600	60.2	262	BRL
Ethylbenzene		880	110	663	55
Xylene		5000	420	3860	1.4
Total BTEX		7489	590.2	4785	*56.4*
MTBE		ND	ND	ND	BRL
Naphthalene		220	30.9	125	34
1,2-Dibromoethane					BRL
1,2-Dichlorethane		NA	ND	NA	BRL
Methane		NA	ND	NA	NA
Lead*		0.12	0.315	0.125	0.068
Iron*		14	0.463	NA	NA
Nitrite*		ND	ND	NA	NA
Nitrate*		ND	0.11	NA	NA
Sulfate*		ND	6.76	NA	NA
Sampling Date:		**1/21/2000**	**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-3				NL
Benzene		4100	1350	1500	
Toluene		75000	49000	48900	
Ethylbenzene		3300	1810	3770	
Xylene		18000	16700	*22600*	
Total BTEX		*100400*	*68860*	*76770*	
MTBE		ND	ND	ND	
Naphthalene		400	614	645	
1,2-Dibromoethane		NA	ND	NA	
Methane		NA	111	NA	
Lead*		0.063	0.445	0.218	
Iron*		27	16.1	NA	
Nitrite*		ND	ND	NA	
Nitrate*		ND	ND	NA	
Sulfate*		120	156	NA	
Sampling Date:			**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-4		NS	FPP	FPP
Benzene					
Toluene					
Ethylbenzene					
Xylene					
Total BTEX					
MTBE					
Naphthalene					
1,2-Dibromoethane					
Methane					
Lead*					
Iron*					
Nitrite*					
Sulfate*					

Sampling Date:	4/24/2001	11/20/2001	9/15/2009
Well No: MW-5			
Benzene	9480	19200	19000
Toluene	28500	30000	51000
Ethylbenzene	860	1400	4100
Xylene	5680	17800	23200
Total BTEX	*44520*	*68400*	*97300*
MTBE	ND	ND	BRL
Naphthalene	6.25^	510	BRL
1,2-Dibromoethane	460	NA	500
1,2-Dichlorethane			BRL
Methane	ND	NA	NA
Lead*	0.088	0.808	1.3
Iron*	2.08	NA	NA
Nitrite*	ND	NA	NA
Nitrate*	0.59	NA	NA
Sulfate*	10.4	NA	NA

Sampling Date:	4/24/2001	11/20/2001	9/15/2009
Well No: MW-6			
Benzene	ND	ND	84
Toluene	ND	ND	150
Ethylbenzene	ND	ND	19
Xylene	3.1	ND	68
Total BTEX	*3.1*	*ND*	*321*
MTBE	ND	ND	BRL
Naphthalene	ND	ND	BRL
1,2-Dibromoethane	ND	NA	BRL
1,2-Dichlorethane			BRL
Methane	ND	NA	NA
Lead*	0.192	0.053	0.041
Iron*	0.102	NA	NA
Nitrite*	0.44	NA	NA
Nitrate*	0.52	NA	NA
Sulfate*	ND	NA	NA

Sampling Date:	4/24/2001	11/20/2001	9/15/2009
Well No: MW-7			NL
Benzene	ND	ND	
Toluene	ND	ND	
Ethylbenzene	ND	ND	
Xylene	ND	ND	
Total BTEX	*ND*	*ND*	
MTBE	ND	ND	
Naphthalene	ND	ND	
1,2-Dibromoethane	ND	NA	
Methane	ND	NA	
Lead*	0.144	0.017	
Iron*	0.19	NA	
Nitrite*	ND	NA	
Nitrate*	1.11	NA	
Sulfate*	ND	NA	

Sampling Date:	4/24/2001	11/20/2001	9/15/2009
Well No: MW-8			
Benzene	ND	ND	BRL
Toluene	ND	ND	1.1
Ethylbenzene	ND	ND	BRL
Xylene	ND	ND	BRL
Total BTEX	*ND*	*ND*	*1.1*
MTBE	ND	ND	BRL
Naphthalene	ND	ND	BRL
1,2-Dibromoethane	ND	NA	BRL
1,2-Dichlorethane			BRL
Methane	ND	NA	NA
Lead*	0.016	0.007	0.28
Iron*	ND	NA	NA
Nitrite*	ND	NA	NA
Nitrate*	0.79	NA	NA
Sulfate*	ND	NA	NA

Sampling Date:		4/24/2001	11/20/2001	9/15/2009
Well No:	MW-9		NS	NL
Benzene		ND		
Toluene		ND		
Ethylbenzene		ND		
Xylene		ND		
Total BTEX		*ND*		
MTBE		ND		
Naphthalene		ND		
1,2-Dibromoethane		ND		
Methane		ND		
Lead*		0.404		
Iron*		0.615		
Nitrite*		ND		
Nitrate*		1.84		
Sulfate*		1.44		
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-10			
Benzene		ND	ND	BRL
Toluene		ND	ND	BRL
Ethylbenzene		ND	ND	BRL
Xylene		ND	ND	BRL
Total BTEX		*ND*	*ND*	*BRL*
MTBE		ND	ND	BRL
Naphthalene		ND	ND	BRL
1,2-Dibromoethane		ND	NA	BRL
1,2-Dichlorethane				BRL
Methane		ND	NA	NA
Lead*		0.078		0.23
Iron*		0.184	NA	NA
Nitrite*		ND	NA	NA
Nitrate*		2.48	NA	NA
Sulfate*		1.42	NA	NA
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-11			
Benzene		ND	ND	BRL
Toluene		ND	ND	BRL
Ethylbenzene		ND	ND	BRL
Xylene		ND	ND	BRL
Total BTEX		*ND*	*ND*	*BRL*
MTBE		ND	ND	BRL
Naphthalene		ND	ND	BRL
1,2-Dibromoethane		ND	NA	BRL
1,2-Dichlorethane				BRL
Methane		ND	NA	NA
Lead*		0.092	0.042	0.016
Iron*		10.2	NA	NA
Nitrite*		ND	NA	NA
Nitrate*		1.22	NA	NA
Sulfate*		5.65	NA	NA
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-12			
Benzene		4850	4410	950
Toluene		5160	467	2200
Ethylbenzene		1090	410	1100
Xylene		6150	3270	4900
Total BTEX		*17250*	*8557*	*9150*
MTBE		ND	ND	38
Naphthalene		93	194	320
1,2-Dibromoethane		30.1	NA	3.6
1,2-Dichlorethane				55
Methane		ND	NA	NA
Lead*		0.094	0.109	0.023
Iron*		ND	NA	NA
Nitrite*		ND	NA	NA
Nitrate*		ND	NA	NA
Sulfate*		2.32	NA	NA

Sampling Date:		4/24/2001	11/20/2001	9/15/2009
Well No:	MW-13			NL
Benzene		2300	1790	
Toluene		29.8	23.5	
Ethylbenzene		45.8	497	
Xylene		15000	303	
Total BTEX		*17375.6*	*2613.5*	
MTBE		ND	ND	
Naphthalene		28.2	101	
1,2-Dibromoethane		11.6	NA	
Methane		ND	NA	
Lead*		0.003	0.138	
Iron*		ND	NA	
Nitrite*		ND	NA	
Nitrate*		ND	NA	
Sulfate*		ND	NA	
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-14			NL
Benzene		2800	ND	
Toluene		ND	ND	
Ethylbenzene		ND	ND	
Xylene		ND	ND	
Total BTEX		*2800*	*ND*	
MTBE		ND	ND	
Naphthalene		ND	ND	
1,2-Dibromoethane		ND	NA	
Methane		ND	NA	
Lead*		0.119	0.196	
Iron*		0.288	NA	
Nitrite*		ND	NA	
Nitrate*		1.05	NA	
Sulfate*		4.18	NA	
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-15	NS	FPP	FPP
Benzene				
Toluene				
Ethylbenzene				
Xylene				
Total BTEX				
MTBE				
Naphthalene				
1,2-Dibromoethane				
Methane				
Lead*				
Iron*				
Nitrite*				
Nitrate*				
Sulfate*				
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-16			
Benzene		ND	ND	BRL
Toluene		ND	ND	BRL
Ethylbenzene		ND	ND	BRL
Xylene		ND	ND	BRL
Total BTEX		*ND*	*ND*	*ND*
MTBE		ND	ND	BRL
Naphthalene		ND	ND	BRL
1,2-Dibromoethane		ND	NA	BRL
1,2-Dichlorethane				BRL
Methane		ND	NA	NA
Lead*		0.089	ND	0.11
Iron*		ND	NA	NA
Nitrite*		ND	NA	NA
Nitrate*		0.81	NA	NA
Sulfate*		9.26	NA	NA

Sampling Date:		4/24/2001	11/20/2001	9/15/2009
Well No:	MW-17			
Benzene		ND	ND	BRL
Toluene		ND	ND	BRL
Ethylbenzene		ND	ND	BRL
Xylene		ND	ND	BRL
Total BTEX		*ND*	*ND*	*ND*
MTBE		ND	ND	BRL
Naphthalene		ND	ND	BRL
1,2-Dibromoethane		ND	NA	BRL
1,2-Dichlorethane				BRL
Methane		ND	NA	NA
Lead*		0.129	0.004	0.015
Iron*		ND	NA	NA
Nitrite*		ND	NA	NA
Nitrate*		0.2	NA	NA
Sulfate*		ND	NA	NA
Sampling Date:		**4/24/2001**	**11/20/2001**	**9/15/2009**
Well No:	MW-18		NS	NL
Benzene		ND	ND	
Toluene		ND	ND	
Ethylbenzene		ND	ND	
Xylene		ND	ND	
Total BTEX		*ND*	*ND*	
MTBE		ND	ND	
Naphthalene		ND	ND	
1,2-Dibromoethane		ND	NA	
Methane		ND	NA	
Lead*		0.039	0.049	
Iron*		0.126	NA	
Nitrite*		ND	NA	
Nitrate*		10.8	NA	
Sulfate*		ND	NA	
Sampling Date:		**5/16/2001**	**11/20/2001**	**9/15/2009**
Well No:	VMW-1			
Benzene		67.4	2.9	7
Toluene		140	3.7	9.7
Ethylbenzene		29.3	ND	BRL
Xylene		199	3.4	6.4
Total BTEX		*435.7*	*10*	*23.1*
MTBE		ND	ND	BRL
Naphthalene		30.4	ND	1.6
1,2-Dibromoethane		ND	NA	BRL
1,2-Dichlorethane				BRL
Methane		ND	NA	NA
Lead*		ND	ND	BRL
Iron*		0.111	NA	NA
Nitrite/Nitrate*		0.86	NA	NA
Sulfate*		26800	NA	NA
Notes:	**ND - Not Detected**			
	NS - Not sampled			
	NA - Not analyzed for			
	*** in mg/L**			
	^ by 8270 (organic parameters)			
	FPP - Free Phase Product			
	NL - Not Located			

Table 3
Select Summary of Oxygenates Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

SAMPLE POINT	MW-1	MW-2	MW-5	MW-6	MW-8	MW-10	MW-11	MW-12	MW-16	MW-17	VMW-1
Sample Date	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**
Ethanol	1190U	59.5U	1190U	298U	59.5U	59.5U	59.5U	298U	59.5U	59.5U	59.5U
Ethyl tert-Butyl Ether	5.18U	0.259U	5.18U	1.3U	0.259U	0.259U	0.259U	1.3U	0.259U	0.259U	0.259U
Di Isopropyl Ether	10.6U	0.529U	321	2.65U	0.529U	0.529U	0.529U	25.6	0.529U	0.529U	0.529U
Ethyl tert-Butyl Alcohol	111U	5.56U	111U	27.8U	5.56U	5.56U	5.56U	27.8U	5.56U	5.56U	5.56U
Tertiary Butyl Alcohol	82.4U	4.12U	82.4U	20.6U	4.12U	4.12U	4.12U	20.6U	4.12U	4.12U	4.12U
Tert-Amyl Methyl Ether	6.96U	0.348U	6.96U	1.74U	0.348U	0.348U	0.348U	1.74U	0.348U	0.348U	0.348U
t-amyl Alcohol	1080	176	7950	1110	15.6U	15.6U	15.6U	812	15.6U	15.6U	15.6U
t-Butyl Formate	7.14U	0.357U	7.14U	1.79U	0.357U	0.357U	0.357U	1.79U	0.357U	0.357U	0.357U

Notes:
** in ug/L*
"U" Indicates the compound was analyzed for but not detected

APPENDICES

Appendix A

Date 9/10/2009

Rhodes Service Station
MW-4, MW-15

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

MW-4
Depth to Water : 18.63'
Depth to Product : 18.45'
Total Depth of Product : .18'

MW-15
Depth to Water : 18.21'
Depth to Product : 17.94'
Total Depth of Product : ..27'

Stinger pipe set : 20'
Vacuum set at 25"Hg

Stinger pipe set : 19'

Maxiumun Range for PID is 5,000 ppm or 5.(

Weather Conditions
Cool and cloudy, Rain off and on.
61°F @ 6:00am
Winds pushing NNE

Discharge Stack ID= 3"

TIME: 30 Min Intervals

Time	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00
FID Readings : ppm	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Discharge Stack Temp. °F	102°	108°	110°	112°	111°	113°	114°	115°	116°	116°	116°	118°	118°	120°	120°	123°	122°
Discharge Stack Velocity: ft/min	1064.8	1091.2	1152.8	1196.8	1249.6	1381.6	1258.4	1355.2	1408.0	1522.4	1416.8	1390.4	1425.6	1452.0	1496.0	1496.0	1487.2
Barometric Pressure	86%	75%	60%	60%	55%	47%	33%	30%	25%	22%	24%	20%	20%	20%	20%	20%	20%
Ambient Air Temp. °F	61.2	61.2	62.1	62.0	63.5	63.8	63.8	64.5	64.7	65.1	65.5	66.0	66.4	66.9	67.6	68.4	69.2

Date 9/10/2009

Rhodes Service Station
MW-4, MW-15

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

MW-4
Depth to Water : 18.63'
Depth to Product : 18.45'
Total Depth of Product : .18'

MW-15
Depth to Water : 18.21'
Depth to Product : 17.94'
Total Depth of Product : ..27'

Stinger pipe set : 20'
Vacuum set at 25"Hg

Stinger pipe set : 19'

Maxiumun Range for PID is 5,000 ppm or 5.(

Weather Conditions
Cool and cloudy, Rain off and on.
61°F @ 6:00am
Winds pushing NNE

Discharge Stack ID= 3"

TIME: 30 Min Intervals

Time	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00
FID Readings : ppm	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Discharge Stack Temp. °F	102°	108°	110°	112°	111°	113°	114°	115°	116°	116°	116°	118°	118°	120°	120°	123°	122°
Discharge Stack Velocity: ft/min	1064.8	1091.2	1152.8	1196.8	1249.6	1381.6	1258.4	1355.2	1408.0	1522.4	1416.8	1390.4	1425.6	1452.0	1496.0	1496.0	1487.2
Barometric Pressure	86%	75%	60%	60%	55%	47%	33%	30%	25%	22%	24%	20%	20%	20%	20%	20%	20%
Ambient Air Temp. °F	61.2	61.2	62.1	62.0	63.5	63.8	63.8	64.5	64.7	65.1	65.5	66.0	66.4	66.9	67.6	68.4	69.2

Appendix B

Emission Data Sheet for AFVR Event #1

Site Name and Incident no.:**Rhodes Service Station**
Incident Number: **08562**
Average depth to groundwater (in feet) 19.12
List the well I.D. and diameter used for AFVR: **MW-4 and MW-15**
Primary vertical position of stinger pipe inlet and diameter: **1.5' to 2' below top of product (2" PVC)**
List AFVR contractor:**Advanced Environmental Options (AEO)**
List blower specifications: **700 cfm @ 24" Hg and 220 cfm @ 27" Hg Based on 4000 rpm**

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Time	Vacuum at well head (inches of Hg)	Wells Pumped	Velocity (ft/min)	Pipe ID (in)	Temp (°F)	R.H. (%)	Water Vapor (Wt%)	Water Vapor (Vol%)	Q_{std} (flow)
8/20/2009	7:00	25.00	MW-4 and MW-15	1065	3	102	77.0	0.0850	0.120	43
	8:00	25.00		1153	3	110	70.0	0.0800	0.114	46
	9:00	25.00		1250	3	111	58.0	0.0950	0.132	49
	10:00	25.00		1258	3	111	32.0	0.0950	0.132	50
	11:00	25.00		1408	3	115	30.0	0.0950	0.132	55
	12:00	25.00		1417	3	115	30.0	0.0950	0.132	55
	13:00	25.00		1426	3	115	30.0	0.0950	0.132	56
	14:00	25.00		1496	3	117	30.0	0.0950	0.132	58
	15:00	25.00		1487	3	120	30.0	0.0950	0.132	58

NOTES
Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = The rate at which air flows is measured at the blower discharge piping (anemometer or pitot tube)
Pipe ID = The inside diameter of the blower discharge piping (from the vacuum truck)
Temperature = The temperature of the air stream exiting the blower discharge piping (dry bulb temp., in deg.°F)
R.H. (relative humidity) = The % relative humidity of the air stream exiting the blower discharge piping
B_{wsw} = water vapor % by weight (pounds of water per pound of dry air, derived from the Psychrometric chart), temp Vs relative humidity
B_{ws} = water vapor % by volume

EQUATIONS
$B_{ws} = (B_{wsw}/18 \text{ lb-mole } H_2O)/[(1/28.84 \text{ lb-mole dry air}) + (B_{wsw}/18 \text{ lb-mole } H_2O)]$
$Q_{std} = (1\text{-Water Vapor}) * \text{velocity} * (PI * (\text{diameter}/24)^2) * (528°R/(\text{Temp} + 460))$

Emission Data Sheet for AFVR Event #1

Time (min)	Flow (DSCFM)	$PPM_{measured}$ (ppm)	PPM_{wet}	PPM_{dry}	K (#C - gas)	PPM_{conc}	$C_{c:m}$ (mg/dsm^3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR (lb)
60	46	50,000	50000	56409	1	56409	28146	0.00175715	4.90	5.67	5.67
120	49	50,000	50000	57611	1	57611	28745	0.00179458	5.30	6.13	12.27
180	50	50,000	50000	57611	1	57611	28745	0.00179458	5.34	6.18	18.53
240	55	50,000	50000	57611	1	57611	28745	0.00179458	5.93	6.86	27.46
300	55	50,000	50000	57611	1	57611	28745	0.00179458	5.97	6.91	34.53
360	56	50,000	50000	57611	1	57611	28745	0.00179458	6.01	6.95	41.70
420	58	50,000	50000	57611	1	57611	28745	0.00179458	6.28	7.27	50.87
480	58	50,000	50000	57611	1	57611	28745	0.00179458	6.21	7.19	57.50

Total emissions in pounds 248.53
Total emissions in gallons 39.76

NOTES

$PPM_{measured}$ = Actual measurements (ppm) taken with a OVA or TVA at the blower discharge piping

PPM_{wet} = "wet" concentration

PPM_{dry} = "dry" concentration

K = Number of carbons in calibration gas: (Methane K = 1, or Propane K = 3, or Hexane K = 6)

PPM_c= PPM_v, Volumetric concentration of VOC emissions as carbon, dry basis at STP

$C_{c:m}$ = mg/dsm^3, mass concentration of VOC emissions as carbon

M_c = 12.01 mg/mg-mole, molecular weight of carbon

K_3 = 24.07 $dsm^3/10^6$ mg-mole, mass to volume conversion factor at STP

C_c = lb/dcsf, mass concentration of VOC emissions as carbon, dry basis at STP

PMR_c = lb/hr, pollutant mass removal rate of VOC's as carbon

PMR_g = lb/hr, pollutant mass removal rate of of VOC's as gasoline

PMR = lb, pollutant mass removal of VOC's as gasoline

EQUATIONS

PPM_{wet} = $PPM_{measured}$	21	1848
PPM_{dry} = $(PPM_{wet})/(1-B_{ws})$	31	2728
PPM_c = $(PPM_d)(K)$	25	2200
$C_{c:m}$ = $(PPM_c)(M_c / K_3)$	20	1760
C_c = $(C_{c:m})(62.43x10^{-9}$ lb-m^3/mg-$ft^3)$	21	1848
PMR_c = $(C_c)(Q_{std})$(60 min/hr)	23	2024
PMR_g = $(PMR_c)(M_g/M_{cg})$	31	2728
PMR = (PMR_g)(#minutes/60)	25	2200

Emission Data Sheet for AFVR Event #2

Site Name and Incident no.: **Rhodes Service Station**
Incident Number: **08562**
Average depth to groundwater (in feet) 18.42
List the well I.D. and diameter used for AFVR: **MW-4 and MW-15**
Primary vertical position of stinger pipe inlet and diameter: **1.5' to 2' below top of product (2" PVC)**
List AFVR contractor:**Advanced Environmental Options (AEO)**
List blower specifications: **700 cfm @ 24" Hg and 220 cfm @ 27" Hg Based on 4000 rpm**

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Time	Vacuum at well head (inches of Hg)	Wells Pumped	Velocity (ft/min)	Pipe ID (in)	Temp (°F)	R.H. (%)	Water Vapor (Wt%)	Water Vapor (Vol%)	Q_{std} (flow)
9/10/2009	6:00	25.00	MW-4 and MW-15	1065	3	102	86.0	0.0850	0.120	43
	7:00	25.00		1153	3	110	60.0	0.0800	0.114	46
	8:00	25.00		1250	3	111	55.0	0.0950	0.132	49
	9:00	25.00		1258	3	114	33.0	0.0950	0.132	49
	10:00	25.00		1408	3	116	25.0	0.0950	0.132	55
	11:00	25.00		1417	3	116	24.0	0.0950	0.132	55
	12:00	25.00		1426	3	118	20.0	0.0950	0.132	55
	13:00	25.00		1496	3	120	20.0	0.0950	0.132	58
	14:00	25.00		1487	3	122	20.0	0.0950	0.132	57

NOTES
Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = The rate at which air flows is measured at the blower discharge piping (anemometer or pitot tube)
Pipe ID = The inside diameter of the blower discharge piping (from the vacuum truck)
Temperature = The temperature of the air stream exiting the blower discharge piping (dry bulb temp., in deg.°F)
R.H. (relative humidity) = The % relative humidity of the air stream exiting the blower discharge piping
B_{wsw} = water vapor % by weight (pounds of water per pound of dry air, derived from the Psychrometric chart), temp Vs relative humidity
B_{ws} = water vapor % by volume

EQUATIONS
$B_{ws} = (B_{wsw}/18 \text{ lb-mole } H_2O)/[(1/28.84 \text{ lb-mole dry air}) + (B_{wsw}/18 \text{ lb-mole } H_2O)]$
$Q_{std} = (1\text{-Water Vapor}) * \text{velocity} * (PI * (\text{diameter}/24)^2) * (528°R/(\text{Temp} + 460))$

Emission Data Sheet for AFVR Event #2

Time (min)	Flow (DSCFM)	$PPM_{measured}$ (ppm)	PPM_{wet}	PPM_{dry}	K (#C - gas)	PPM_{conc}	$C_{c:m}$ (mg/dsm^3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR (lb)
60	46	50,000	50000	56409	1	56409	28146	0.00175715	4.90	5.67	5.67
120	49	50,000	50000	57611	1	57611	28745	0.00179458	5.30	6.13	12.27
180	49	50,000	50000	57611	1	57611	28745	0.00179458	5.31	6.15	18.44
240	55	50,000	50000	57611	1	57611	28745	0.00179458	5.92	6.85	27.41
300	55	50,000	50000	57611	1	57611	28745	0.00179458	5.96	6.89	34.47
360	55	50,000	50000	57611	1	57611	28745	0.00179458	5.97	6.91	41.48
420	58	50,000	50000	57611	1	57611	28745	0.00179458	6.25	7.23	50.61
480	57	50,000	50000	57611	1	57611	28745	0.00179458	6.19	7.16	57.30

Total emissions in pounds 247.65
Total emissions in gallons 39.62

NOTES

$PPM_{measured}$ = Actual measurements (ppm) taken with a OVA or TVA at the blower discharge piping

PPM_{wet} = "wet" concentration

PPM_{dry} = "dry" concentration

K = Number of carbons in calibration gas: (Methane K = 1, or Propane K = 3, or Hexane K = 6)

PPM_c= PPM_v, Volumetric concentration of VOC emissions as carbon, dry basis at STP

$C_{c:m}$ = mg/dsm^3, mass concentration of VOC emissions as carbon

M_c = 12.01 mg/mg-mole, molecular weight of carbon

K_3 = 24.07 $dsm^3/10^6$ mg-mole, mass to volume conversion factor at STP

C_c = lb/dcsf, mass concentration of VOC emissions as carbon, dry basis at STP

PMR_c = lb/hr, pollutant mass removal rate of VOC's as carbon

PMR_g = lb/hr, pollutant mass removal rate of of VOC's as gasoline

PMR = lb, pollutant mass removal of VOC's as gasoline

EQUATIONS

$PPM_{wet} = PPM_{measured}$

$PPM_{dry} = (PPM_{wet})/(1-B_{ws})$

$PPM_c = (PPM_d)(K)$

$C_{c:m} = (PPM_c)(M_c / K_3)$

$C_c = (C_{c:m})(62.43x10^{-9}$ lb-m^3/mg-ft^3)

$PMR_c = (C_c)(Q_{std})(60$ min/hr)

$PMR_g = (PMR_c)(M_g/M_{cg})$

PMR = (PMR_g)(#minutes/60)

21	1848
31	2728
25	2200
20	1760
21	1848
23	2024
31	2728
25	2200
33	2904

Appendix C

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CES0G

Manifest Document No.: 00810

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Service Station
410 Spartanburg Hwy South
Wellford, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: SCR000766671

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: SCR000766671

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-911

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	TT	02000	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) b/-
Gross - 897 gallons
Petro - 56 gallons
Water - 841 gallons

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact : David Hitchens 864-488-9111, cell - 864-590-4648 job# 5809

GENERATOR

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: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Sea | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

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: Kim Garrett | Signature | Date: Month Day Year: 8/24/06

NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E 3 Q G

Manifest Document No.: 0 0 8 4 1

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Service Station
410 Spartanburg Hwy South
Wellford, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-9111

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	T T	0 2 0 0 0	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above

a) 6/-
Petroleum: 54 gallons
Water: 812 gallons
Total = 866 gallons

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gross: 34,620, Tare: 27,400, Net: 7220,
Net / 8.34 = 866 gallons, Price per Gallon: $,
AEO Job #: 5871

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: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

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: Kim Garrett | Signature | Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E 3 Q G

Manifest Document No.: 0 0 9 0 1

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Sevice Station
410 Spartanburg Hwy South
Wellford, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc
6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID
B. Transporter 1 Phone: (864) 488-911:

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307
10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID
F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water) (1x15) (001538)	1	T T	0 3 0 0 0	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) L/-

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact : David Hitchens 864-488-9111, cell - 864-590-4648
job# 5960

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: Matthew Ange
Signature:
Date: Month 10 Day 13 Year 2009

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Matthew Ange
Signature:
Date: Month 10 Day 13 Year 2009

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

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: Month Day Year

GENERATOR
TRANSPORTER
FACILITY
NON-HAZARDOUS WASTE

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Appendix D

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-1

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 18.03 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-2

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 18.85 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No Purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-3

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not Located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-4

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks FPP No Sample
FPP 18.45 - 18.63

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-5

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 17.64 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-6

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 17.22 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-7

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-8

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 20.58 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-9

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling ____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not Located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-10

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 19.55 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-11

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 18.50 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-12

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 18.01 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-13

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Not Located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-14

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks well not located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-15

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks FPP 17.94 – 18.71
No Sample collected

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-16

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 18.19 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No Purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-17

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 18.75 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No Purge Sample

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-18

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks well Not located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-19

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater _____ ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks well not located

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # V MW-1

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) _____ ft. Below Ground Surface
Depth to Groundwater 19.28 ft. Below Ground Surface
Screen interval __ ft. to _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)	4.9	4.9	4.8					
Specific Cond. (mS/cm)	171	122	120					
Water Temp (°C)	23.1	21.5	20.8					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

APPENDIX E

PRISM LABORATORIES, INC.

Case Narrative

Date: 10/06/09
Company: Blue Ridge Environmental Services
Contact: Ken Pimienta
Address: 2315 Kings Road Extension
Shelby, NC 28152

Client Project ID: Rhodes Service Station
Prism COC Group No: G0909509
Collection Date(s): 09/15/09
Lab Submittal Date(s): 09/18/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report , Quality Control and a Subcontracted Laboratory Report with corresponding Chain-of-Custody totaling 49 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

The 8 Oxygenates by Method 8260 analysis subcontracted to GCAL. Laboratory report is attached.

Metals Analysis

No Anomalies Reported

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones
Signature: Robbi A. Jones
Review Date: 10/06/09

Project Manager: Angela D. Overcash
Signature:
Approval Date: 10/06/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-1
Prism Sample ID 258238
COC Group: G0909509
Time Collected: 09/15/09 9:50
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	**69**	µg/L	2.0	0.54	100	8011	09/30/09 16:21	jvogel	Q44965
Sample Preparation:			33.18 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	DO #	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	**BRL**	µg/L	100	7.2	100	8260B	09/28/09 17:44	lwitry	Q44761
Benzene	**3300**	µg/L	100	4.4	100	8260B	09/28/09 17:44	lwitry	Q44761
Ethylbenzene	**3700**	µg/L	100	8.5	100	8260B	09/28/09 17:44	lwitry	Q44761
m,p-Xylenes	**14000**	µg/L	200	13	100	8260B	09/28/09 17:44	lwitry	Q44761
Methyl t-butyl ether (MTBE)	**BRL**	µg/L	100	11	100	8260B	09/28/09 17:44	lwitry	Q44761
Naphthalene	**680**	µg/L	100	23	100	8260B	09/28/09 17:44	lwitry	Q44761
o-Xylene	**7500**	µg/L	100	5.9	100	8260B	09/28/09 17:44	lwitry	Q44761
Toluene	**26000**	µg/L	1000	64	1000	8260B	09/28/09 17:11	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	104	74 - 133
Bromofluorobenzene	108	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	**See Attached**				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	**0.038**	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:34	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-1
Prism Sample ID 258238
COC Group: G0909509
Time Collected: 09/15/09 9:50
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-2
Prism Sample ID 258239
COC Group: G0909509
Time Collected: 09/15/09 10:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	09/29/09 18:06	jvogel	Q44965
Sample Preparation:			32.85 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	98	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/29/09 11:26	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/29/09 11:26	lwitry	Q44761
Ethylbenzene	55	µg/L	1.0	0.085	1	8260B	09/29/09 11:26	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/29/09 11:26	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/29/09 11:26	lwitry	Q44761
Naphthalene	34	µg/L	1.0	0.23	1	8260B	09/29/09 11:26	lwitry	Q44761
o-Xylene	1.4	µg/L	1.0	0.059	1	8260B	09/29/09 11:26	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/29/09 11:26	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	108	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.068	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:50	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-2
Prism Sample ID 258239
COC Group: G0909509
Time Collected: 09/15/09 10:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-16
Prism Sample ID 258240
COC Group: G0909509
Time Collected: 09/15/09 10:32
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 18:33	jvogel	Q44965
Sample Preparation:			33.3 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	99	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:01	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:01	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:01	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:01	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:01	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:01	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:01	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:01	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	106	74 - 133
Bromofluorobenzene	108	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.11	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:58	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-16
Prism Sample ID 258240
COC Group: G0909509
Time Collected: 09/15/09 10:32
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-17
Prism Sample ID 258241
COC Group: G0909509
Time Collected: 09/15/09 10:46
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	09/29/09 19:01	jvogel	Q44965
Sample Preparation:			32.82 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	108	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:33	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:33	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:33	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:33	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:33	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:33	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:33	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:33	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	107	74 - 133
Bromofluorobenzene	109	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.015	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:05	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-17
Prism Sample ID 258241
COC Group: G0909509
Time Collected: 09/15/09 10:46
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-5
Prism Sample ID 258242
COC Group: G0909509
Time Collected: 09/15/09 11:03
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	500	µg/L	10	2.7	500	8011	09/30/09 16:49	jvogel	Q44965
Sample Preparation:			32.84 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	DO #	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1000	72	1000	8260B	09/28/09 19:22	lwitry	Q44761
Benzene	19000	µg/L	1000	44	1000	8260B	09/28/09 19:22	lwitry	Q44761
Ethylbenzene	4100	µg/L	1000	85	1000	8260B	09/28/09 19:22	lwitry	Q44761
m,p-Xylenes	16000	µg/L	2000	130	1000	8260B	09/28/09 19:22	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1000	110	1000	8260B	09/28/09 19:22	lwitry	Q44761
Naphthalene	BRL	µg/L	1000	230	1000	8260B	09/28/09 19:22	lwitry	Q44761
o-Xylene	7200	µg/L	1000	59	1000	8260B	09/28/09 19:22	lwitry	Q44761
Toluene	51000	µg/L	1000	64	1000	8260B	09/28/09 19:22	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	106	74 - 133
Bromofluorobenzene	110	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	1.3	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:13	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-5
Prism Sample ID 258242
COC Group: G0909509
Time Collected: 09/15/09 11:03
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-6
Prism Sample ID 258243
COC Group: G0909509
Time Collected: 09/15/09 11:17
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/30/09 15:53	jvogel	Q44965
Sample Preparation:			33.24 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	85	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 13:57	lwitry	Q44761
Benzene	84	µg/L	1.0	0.044	1	8260B	09/28/09 13:57	lwitry	Q44761
Ethylbenzene	19	µg/L	1.0	0.085	1	8260B	09/28/09 13:57	lwitry	Q44761
m,p-Xylenes	55	µg/L	2.0	0.13	1	8260B	09/28/09 13:57	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 13:57	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/28/09 13:57	lwitry	Q44761
o-Xylene	13	µg/L	1.0	0.059	1	8260B	09/28/09 13:57	lwitry	Q44761
Toluene	150	µg/L	1.0	0.064	1	8260B	09/28/09 13:57	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	114	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.041	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:30	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-6
Prism Sample ID 258243
COC Group: G0909509
Time Collected: 09/15/09 11:17
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
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Angela D. Overcash, V.P. Laboratory Services

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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-8
Prism Sample ID 258244
COC Group: G0909509
Time Collected: 09/15/09 11:33
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.022	0.0059	1	8011	09/29/09 20:24	jvogel	Q44965
Sample Preparation:			32.24 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	95	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 14:29	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/28/09 14:29	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/28/09 14:29	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/28/09 14:29	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 14:29	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/28/09 14:29	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/28/09 14:29	lwitry	Q44761
Toluene	1.1	µg/L	1.0	0.064	1	8260B	09/28/09 14:29	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	97	75 - 121
Dibromofluoromethane	105	74 - 133
Bromofluorobenzene	112	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.28	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:38	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-8
Prism Sample ID 258244
COC Group: G0909509
Time Collected: 09/15/09 11:33
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-10
Prism Sample ID 258245
COC Group: G0909509
Time Collected: 09/15/09 11:55
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 20:52	jvogel	Q44965
Sample Preparation:			33.35 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	109	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 1:34	lwitry	Q44763
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 1:34	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 1:34	lwitry	Q44763
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 1:34	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 1:34	lwitry	Q44763
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 1:34	lwitry	Q44763
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 1:34	lwitry	Q44763
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 1:34	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	98	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.23	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:45	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-10
Prism Sample ID 258245
COC Group: G0909509
Time Collected: 09/15/09 11:55
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-11
Prism Sample ID 258246
COC Group: G0909509
Time Collected: 09/15/09 12:07
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 21:20	jvogel	Q44965
Sample Preparation:			32.88 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	115	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:00	lwitry	Q44763
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:00	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:00	lwitry	Q44763
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:00	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:00	lwitry	Q44763
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:00	lwitry	Q44763
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:00	lwitry	Q44763
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:00	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	99	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	98	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.016	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:53	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-11
Prism Sample ID 258246
COC Group: G0909509
Time Collected: 09/15/09 12:07
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-12
Prism Sample ID: 258247
COC Group: G0909509
Time Collected: 09/15/09 12:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	**3.6**	µg/L	0.10	0.027	5	8011	09/30/09 17:17	jvogel	Q44965
Sample Preparation:			33.56 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	106	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	**55**	µg/L	10	0.72	10	8260B	09/26/09 2:54	lwitry	Q44763
Benzene	**950**	µg/L	10	0.44	10	8260B	09/26/09 2:54	lwitry	Q44763
Ethylbenzene	**1100**	µg/L	100	8.5	100	8260B	09/28/09 17:14	lwitry	Q44763
m,p-Xylenes	**3300**	µg/L	200	13	100	8260B	09/28/09 17:14	lwitry	Q44763
Methyl t-butyl ether (MTBE)	**38**	µg/L	10	1.1	10	8260B	09/26/09 2:54	lwitry	Q44763
Naphthalene	**320**	µg/L	10	2.3	10	8260B	09/26/09 2:54	lwitry	Q44763
o-Xylene	**1600**	µg/L	100	5.9	100	8260B	09/28/09 17:14	lwitry	Q44763
Toluene	**2200**	µg/L	100	6.4	100	8260B	09/28/09 17:14	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	105	75 - 121
Dibromofluoromethane	108	74 - 133
Bromofluorobenzene	104	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	**See Attached**				1	8260B			

* Analysis Note for Subcontract Report: The analysis for the 8 Oxygenates by Method 8260 subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	**0.023**	mg/L	0.0050	0.00095	1	6010B	09/21/09 21:01	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-12
Prism Sample ID 258247
COC Group: G0909509
Time Collected: 09/15/09 12:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID VMW-1
Prism Sample ID 258248
COC Group: G0909509
Time Collected: 09/15/09 12:40
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 22:16	jvogel	Q44965
Sample Preparation:			33.09 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	120	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 16:47	lwitry	Q44763
Benzene	7.0	µg/L	1.0	0.044	1	8260B	09/28/09 16:47	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/28/09 16:47	lwitry	Q44763
m,p-Xylenes	4.4	µg/L	2.0	0.13	1	8260B	09/28/09 16:47	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 16:47	lwitry	Q44763
Naphthalene	1.6	µg/L	1.0	0.23	1	8260B	09/28/09 16:47	lwitry	Q44763
o-Xylene	2.0	µg/L	1.0	0.059	1	8260B	09/28/09 16:47	lwitry	Q44763
Toluene	9.7	µg/L	1.0	0.064	1	8260B	09/28/09 16:47	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	97	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	BRL	mg/L	0.0050	0.00095	1	6010B	09/21/09 21:08	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID VMW-1
Prism Sample ID 258248
COC Group: G0909509
Time Collected: 09/15/09 12:40
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Metals by ICP, method 6010B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Lead	0.0006	0.005	<0.0025	mg/L	Q44653

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Lead	0.2577	0.25	mg/L	103	80-120	Q44653

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258238 Lead	0.2929	0.25	mg/L	102	75-125	Q44653

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258238 Lead	0.3001	0.25	mg/L	105	75-125	2	0 - 20	Q44653

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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44761
Benzene	ND	1	<0.5	µg/L	Q44761
Ethylbenzene	ND	1	<0.5	µg/L	Q44761
m,p-Xylenes	ND	2	<1	µg/L	Q44761
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q44761
Naphthalene	ND	1	<0.5	µg/L	Q44761
o-Xylene	ND	1	<0.5	µg/L	Q44761
Toluene	ND	1	<0.5	µg/L	Q44761

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	56.25	50	µg/L	113	77-131	Q44761
Benzene	54.28	50	µg/L	109	70-141	Q44761
Ethylbenzene	56.98	50	µg/L	114	80-139	Q44761
m,p-Xylenes	114.88	100	µg/L	115	82-136	Q44761
Methyl t-butyl ether (MTBE)	54.11	50	µg/L	108	70-130	Q44761
Naphthalene	51.04	50	µg/L	102	40-136	Q44761
o-Xylene	55.74	50	µg/L	111	73-134	Q44761
Toluene	49.31	50	µg/L	99	78-130	Q44761

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258148	1,2-Dichloroethane	566.5	500	µg/L	113	67-143	Q44761
	Benzene	523.1	500	µg/L	105	62-129	Q44761
	Ethylbenzene	522.8	500	µg/L	105	58-133	Q44761
	m,p-Xylenes	1065.6	1000	µg/L	107	59-137	Q44761
	Methyl t-butyl ether (MTBE)	554.4	500	µg/L	111	70-130	Q44761
	Naphthalene	505.2	500	µg/L	101	54-127	Q44761
	o-Xylene	531.6	500	µg/L	106	65-129	Q44761
	Toluene	467.8	500	µg/L	94	60-131	Q44761

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258148	1,2-Dichloroethane	541.8	500	µg/L	108	67-143	4	0 - 22	Q44761
	Benzene	518.3	500	µg/L	104	62-129	1	0 - 19	Q44761
	Ethylbenzene	501.7	500	µg/L	100	58-133	4	0 - 22	Q44761
	m,p-Xylenes	1025.7	1000	µg/L	103	59-137	4	0 - 20	Q44761

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258148	Methyl t-butyl ether (MTBE)	532.3	500	µg/L	106	70-130	4	0 - 20	Q44761
	Naphthalene	497.9	500	µg/L	100	54-127	1	0 - 24	Q44761
	o-Xylene	507.9	500	µg/L	102	65-129	5	0 - 21	Q44761
	Toluene	457.6	500	µg/L	92	60-131	2	0 - 21	Q44761

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44763
Benzene	ND	1	<0.5	µg/L	Q44763
Ethylbenzene	ND	1	<0.5	µg/L	Q44763
m,p-Xylenes	ND	2	<1	µg/L	Q44763
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q44763
Naphthalene	ND	1	<0.5	µg/L	Q44763
o-Xylene	ND	1	<0.5	µg/L	Q44763
Toluene	ND	1	<0.5	µg/L	Q44763

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	54.56	50	µg/L	109	77-131	Q44763
Benzene	53.69	50	µg/L	107	70-141	Q44763
Ethylbenzene	52.85	50	µg/L	106	80-139	Q44763
m,p-Xylenes	107.39	100	µg/L	107	82-136	Q44763
Methyl t-butyl ether (MTBE)	51.71	50	µg/L	103	70-130	Q44763
Naphthalene	50.11	50	µg/L	100	40-136	Q44763
o-Xylene	52.47	50	µg/L	105	73-134	Q44763
Toluene	52.92	50	µg/L	106	78-130	Q44763

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258653	1,2-Dichloroethane	564.1	500	µg/L	113	67-143	Q44763
	Benzene	550.6	500	µg/L	110	62-129	Q44763
	Ethylbenzene	534.3	500	µg/L	107	58-133	Q44763
	m,p-Xylenes	1085.6	1000	µg/L	109	59-137	Q44763
	Methyl t-butyl ether (MTBE)	529.6	500	µg/L	106	70-130	Q44763
	Naphthalene	530.8	500	µg/L	106	54-127	Q44763
	o-Xylene	533.2	500	µg/L	107	65-129	Q44763
	Toluene	540.4	500	µg/L	108	60-131	Q44763

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258653	1,2-Dichloroethane	537	500	µg/L	107	67-143	5	0 - 22	Q44763
	Benzene	529.7	500	µg/L	106	62-129	4	0 - 19	Q44763
	Ethylbenzene	523.7	500	µg/L	105	58-133	2	0 - 22	Q44763
	m,p-Xylenes	1062.6	1000	µg/L	106	59-137	2	0 - 20	Q44763

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Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258653	Methyl t-butyl ether (MTBE)	506.6	500	µg/L	101	70-130	4	0 - 20	Q44763
	Naphthalene	514.9	500	µg/L	103	54-127	3	0 - 24	Q44763
	o-Xylene	521.3	500	µg/L	104	65-129	2	0 - 21	Q44763
	Toluene	522.4	500	µg/L	104	60-131	3	0 - 21	Q44763

EDB and DBCP by Microextraction/GC-ECD, method 8011

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dibromoethane (EDB)	ND	0.02	<0.01	µg/L	Q44965

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dibromoethane (EDB)	0.287	0.25	µg/L	115	60-140	Q44965

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258246	1,2-Dibromoethane (EDB)	0.258	0.25	µg/L	103	60-140	Q44965

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258246	1,2-Dibromoethane (EDB)	0.274	0.25	µg/L	110	60-140	6	0 - 20	Q44965

#-See Case Narrative

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ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
G0909509

LABORATORY REPORT NUMBER
209092104

DATE
09/28/2009

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.**

- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**

- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/28/2009

GCAL Report 209092104

Deliver To Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224
706-529-6364

Attn Angie Overcash

Project G0909509

CASE NARRATIVE

Client: Prism Laboratories, Inc. **Report:** 209092104

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B - Gas Additives analysis, samples 20909210401 (MW-1), 20909210405 (MW-5), 20909210406 (MW-6), and 20909210410 (MW-12) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Robyn Migues
Technical Director
GCAL REPORT 209092104

THIS REPORT CONTAINS 21 PAGES.

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	1080	400	312	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	176	20.0	15.6	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	321	100	10.6	ug/L
75-85-4	tert-amyl alcohol (TAA)	7950	400	312	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	1110	100	78.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210410	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	25.6	25.0	2.65	ug/L
75-85-4	tert-amyl alcohol (TAA)	812	100	78.0	ug/L

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20
20909210403	MW-16	Water	09/15/2009 10:32	09/19/2009 09:20
20909210404	MW-17	Water	09/15/2009 10:46	09/19/2009 09:20
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20
20909210407	MW-8	Water	09/15/2009 11:33	09/19/2009 09:20
20909210408	MW-10	Water	09/15/2009 11:50	09/19/2009 09:20
20909210409	MW-11	Water	09/15/2009 12:07	09/19/2009 09:20
20909210410	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20
20909210411	VMW-1	Water	09/15/2009 12:40	09/19/2009 09:20

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/22/2009 01:20	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	1190U	20000	1190	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.18U	100	5.18	ug/L
108-20-3	diisopropyl Ether (DIPE)	10.6U	100	10.6	ug/L
624-95-3	ethyl tert-butanol (ETBA)	111U	2000	111	ug/L
75-65-0	t-Butanol (TBA)	82.4U	200	82.4	ug/L
994-05-8	t-amyl methyl ether (TAME)	6.96U	100	6.96	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1080**	**400**	**312**	**ug/L**
762-75-4	tert-butyl formate (TBF)	7.14U	100	7.14	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1150	ug/L	115	50 - 150
1868-53-7	Dibromofluoromethane	1000	1070	ug/L	107	50 - 150
2037-26-5	Toluene d8	1000	963	ug/L	96	50 - 150
17060-07-0	1,2-Dichloroethane-d4	1000	1040	ug/L	104	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 02:54	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**176**	**20.0**	**15.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.9	ug/L	106	50 - 150
1868-53-7	Dibromofluoromethane	50	52	ug/L	104	50 - 150
2037-26-5	Toluene d8	50	46.7	ug/L	93	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	55.9	ug/L	112	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/22/2009 06:04	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	1190U	20000	1190	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.18U	100	5.18	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**321**	**100**	**10.6**	**ug/L**
624-95-3	ethyl tert-butanol (ETBA)	111U	2000	111	ug/L
75-65-0	t-Butanol (TBA)	82.4U	200	82.4	ug/L
994-05-8	t-amyl methyl ether (TAME)	6.96U	100	6.96	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**7950**	**400**	**312**	**ug/L**
762-75-4	tert-butyl formate (TBF)	7.14U	100	7.14	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1130	ug/L	113	50 - 150
1868-53-7	Dibromofluoromethane	1000	1080	ug/L	108	50 - 150
2037-26-5	Toluene d8	1000	881	ug/L	88	50 - 150
17060-07-0	1,2-Dichloroethane-d4	1000	1050	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/25/2009 23:11	SLR	418993

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	298U	5000	298	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.30U	25.0	1.30	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.65U	25.0	2.65	ug/L
624-95-3	ethyl tert-butanol (ETBA)	27.8U	500	27.8	ug/L
75-65-0	t-Butanol (TBA)	20.6U	50.0	20.6	ug/L
994-05-8	t-amyl methyl ether (TAME)	1.74U	25.0	1.74	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1110**	**100**	**78.0**	**ug/L**
762-75-4	tert-butyl formate (TBF)	1.79U	25.0	1.79	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	249	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	250	256	ug/L	102	50 - 150
2037-26-5	Toluene d8	250	258	ug/L	103	50 - 150
17060-07-0	1,2-Dichloroethane-d4	250	238	ug/L	95	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210407	MW-8	Water	09/15/2009 11:33	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 04:27	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	55.9	ug/L	112	50 - 150
2037-26-5	Toluene d8	50	48.3	ug/L	97	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	53.1	ug/L	106	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-08	MW-10	Water	09/15/2009 11:50	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 04:53	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	56.1	ug/L	112	50 - 150
2037-26-5	Toluene d8	50	48.7	ug/L	97	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-09	MW-11	Water	09/15/2009 12:07	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 05:17	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	50 - 150
1868-53-7	Dibromofluoromethane	50	54.9	ug/L	110	50 - 150
2037-26-5	Toluene d8	50	47.6	ug/L	95	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-10	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/22/2009 06:28	WAS	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	298U	5000	298	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.30U	25.0	1.30	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**25.6**	**25.0**	**2.65**	**ug/L**
624-95-3	ethyl tert-butanol (ETBA)	27.8U	500	27.8	ug/L
75-65-0	t-Butanol (TBA)	20.6U	50.0	20.6	ug/L
994-05-8	t-amyl methyl ether (TAME)	1.74U	25.0	1.74	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**812**	**100**	**78.0**	**ug/L**
762-75-4	tert-butyl formate (TBF)	1.79U	25.0	1.79	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	290	ug/L	116	50 - 150
1868-53-7	Dibromofluoromethane	250	273	ug/L	109	50 - 150
2037-26-5	Toluene d8	250	224	ug/L	90	50 - 150
17060-07-0	1,2-Dichloroethane-d4	250	263	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210403	MW-16	Water	09/15/2009 10:32	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 03:18	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	50	53.4	ug/L	107	50 - 150
2037-26-5	Toluene d8	50	48.1	ug/L	96	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210404	MW-17	Water	09/15/2009 10:46	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 03:41	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	50 - 150
1868-53-7	Dibromofluoromethane	50	53.8	ug/L	108	50 - 150
2037-26-5	Toluene d8	50	49.7	ug/L	99	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-11	VMW-1	Water	09/15/2009 12:40	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 05:40	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	54.8	ug/L	110	50 - 150
2037-26-5	Toluene d8	50	47.6	ug/L	95	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 418719	Client ID	MB418719			LCS418719			LCSD418719			
Prep Batch N/A	GCAL ID	760861			760862			760863			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	09/21/2009 23:00			09/21/2009 20:52			09/21/2009 21:27			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	56.3	113	50 - 150	55.9	112	0.7	50
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	56.3	113	50 - 150	55.5	111	1	50
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	54.6	109	50 - 150	53.1	106	3	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	56.3	113	50 - 150	54.9	110	3	50
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2420	95	50 - 150	2380	93	2	50
64-17-5	Ethanol	59.5U	59.5	25200	29200	116	50 - 150	23300	92	22	50
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	215	108	50 - 150	208	104	3	50
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	56.6	113	50 - 150	54.6	109	4	50
Surrogate											
460-00-4	4-Bromofluorobenzene	51.2	102	50	51	102	50 - 150	51.8	104		
1868-53-7	Dibromofluoromethane	54.1	108	50	51.5	103	50 - 150	51.3	103		
2037-26-5	Toluene d8	50.4	101	50	47.1	94	50 - 150	46.4	93		
17060-07-0	1,2-Dichloroethane-d4	51.8	104	50	51.6	103	50 - 150	51.9	104		

Analytical Batch 418719	Client ID	MW-1			760518MS			760518MSD			
Prep Batch N/A	GCAL ID	20909210401			761017			761018			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/22/2009 01:20			09/22/2009 01:44			09/22/2009 02:07			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.00	6.96	1000	1280	128	50 - 150	1200	120	6	50
75-65-0	t-Butanol (TBA)	0.00	82.4	1000	1460	146	50 - 150	1170	117	22	50
108-20-3	diisopropyl Ether (DIPE)	0.00	10.6	1000	1210	121	50 - 150	1160	116	4	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.00	5.18	1000	1230	123	50 - 150	1200	120	2	50
624-95-3	ethyl tert-butanol (ETBA)	0.00	111	51000	51200	100	50 - 150	43800	86	16	50
64-17-5	Ethanol	0.00	1190	504000	623000	124	50 - 150	547000	109	13	50
75-85-4	tert-amyl alcohol (TAA)	1080	312	4000	6630	139	50 - 150	5610	113	17	50
762-75-4	tert-butyl formate (TBF)	0.00	7.14	1000	1230	123	50 - 150	1210	121	2	50
Surrogate											
460-00-4	4-Bromofluorobenzene	1150	115	1000	1110	111	50 - 150	1090	109		
1868-53-7	Dibromofluoromethane	1070	107	1000	1030	103	50 - 150	1030	103		

GC/MS Volatiles Quality Control Summary

Analytical Batch 418719	Client ID	MW-1	760518MS	760518MSD
Prep Batch N/A	GCAL ID	20909210401	761017	761018
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	09/22/2009 01:20	09/22/2009 01:44	09/22/2009 02:07
	Matrix	Water	Water	Water

SW-846 8260B		Units	ug/L	Spike Added	Result	Result % R	Control Limits % R	Result	% R	RPD	RPD Limit
2037-26-5	Toluene d8		963	96	1000	882	88	50 - 150	879	88		
17060-07-0	1,2-Dichloroethane-d4		1040	104	1000	1070	107	50 - 150	1040	104		

Analytical Batch 418993	Client ID	MB418993	LCS418993
Prep Batch N/A	GCAL ID	762461	762462
	Sample Type	Method Blank	LCS
	Analytical Date	09/25/2009 17:43	09/25/2009 16:55
	Matrix	Water	Water

SW-846 8260B		Units	ug/L Result	Spike Added	Result	% R	Control Limits % R
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	55.7	111	50 - 150
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	46.9	94	50 - 150
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	53.6	107	50 - 150
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	54.0	108	50 - 150
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2330	91	50 - 150
64-17-5	Ethanol	59.5U	59.5	25200	27700	110	50 - 150
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	196	98	50 - 150
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	52.6	105	50 - 150
Surrogate							
460-00-4	4-Bromofluorobenzene	48.8	98	50	51	102	50 - 150
1868-53-7	Dibromofluoromethane	52.5	105	50	50.1	100	50 - 150
2037-26-5	Toluene d8	52.4	105	50	49.4	99	50 - 150
17060-07-0	1,2-Dichloroethane-d4	48.2	96	50	50.1	100	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 418993 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	151781 20909234411 SAMPLE 09/25/2009 20:27 Water			761375MS 762635 MS 09/25/2009 21:14 Water			761375MSD 762636 MSD 09/25/2009 21:37 Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.00	17.4	2500	2670	107	50 - 150	2780	111	4	50
75-65-0	t-Butanol (TBA)	0.00	206	2500	2690	108	50 - 150	2600	104	3	50
108-20-3	diisopropyl Ether (DIPE)	0.00	26.5	2500	2490	100	50 - 150	2460	98	1	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.00	13.0	2500	2550	102	50 - 150	2530	101	0.8	50
624-95-3	ethyl tert-butanol (ETBA)	0.00	278	128000	132000	104	50 - 150	117000	92	12	50
64-17-5	Ethanol	0.00	2980	1260000	1360000	108	50 - 150	1320000	105	3	50
75-85-4	tert-amyl alcohol (TAA)	3100	780	10000	12100	90	50 - 150	11900	88	2	50
762-75-4	tert-butyl formate (TBF)	0.00	17.9	2500	2510	100	50 - 150	2480	99	1	50
Surrogate											
460-00-4	4-Bromofluorobenzene			2500	2550	102	50 - 150	2490	100		
1868-53-7	Dibromofluoromethane			2500	2520	101	50 - 150	2500	100		
2037-26-5	Toluene d8			2500	2500	100	50 - 150	2410	96		
17060-07-0	1,2-Dichloroethane-d4			2500	2520	101	50 - 150	2560	102		

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Prism Labs, Inc.
Report To/Contact Name: Angie Overcash
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF ___ Excel ___ Other _____
Site Location Name: _____
Site Location Physical Address: _____

Project Name: G0409509
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: _____
Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 5-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.7	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___
SC X OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED 8 oxygenates	REMARKS	PRISM LAB ID NO.
MW-1	9/15/09	09:50	GW	VOA	2	40ml	HCL	X	258238	1
MW-2		10:15						X	258239	2
MW-16		10:32						X	258240	3
MW-17		10:46						X	258241	4
MW-5		11:03						X	258242	5
MW-6		11:17						X	258243	6
MW-8		11:33						X	258244	7
MW-10		11:50						X	258245	8
MW-11		12:07						X	258246	9
MW-12		12:15						X	258247	10
VMW-1		12:40						X	258248	11

Sampler's Signature _____ Sampled By (Print Name) _____ Affiliation _____

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By (Signature)	Received By (Signature)	Date	Military/Hours
[signature]	Fed Ex	9/18/09	
Relinquished By (Signature) Fed Ex	Received By (Signature)	Date	
Relinquished By (Signature) Fed Ex	Received For Prism Laboratories By: [signature]	Date 9/19/09	0920

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No.: Pale - couple Rec: [signature] 9-21-9 GJV

Additional Comments: 4.7°C

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ ___ | UST: ☐ NC ☐ SC ☐ | GROUNDWATER: ☐ NC ☐ SC ☐ | DRINKING WATER: ☐ NC ☐ SC ☐ | SOLID WASTE: ☐ NC ☐ SC ☐ | RCRA: ☐ NC ☐ SC ☐ | CERCLA ☐ NC ☐ SC ☐ | LANDFILL ☐ NC ☐ SC ☐ | OTHER: ☐ NC ☐ SC ☐

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

SC

SHELBY, N.C. 28152
704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

PROJECT NAME/LOCATION: Rhodes Service Station
GROUNDWATER INCIDENT #:
STF CODE:
P.O.#: 16880
LAB: Prism
SAMPLERS: Matt Ainge
PROJECT MANAGER: Ken Pinienta

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX + Naph + MTBE	8260B 1,2 DCA	8260B 8 oxygenates	Lead	EDB	8011	REMARKS
MW-1	9/15/09	9:50		✓	Groundwater Sample		10	✓	✓	✓	✓			258238
MW-2	"	1015		✓	"			✓	✓	✓	✓			258239
MW-16	"	1032		✓	"			✓	✓	✓	✓			258240
MW-17	"	1046		✓	"			✓	✓	✓	✓			258241
MW-5	"	1103		✓	"			✓	✓	✓	✓			258242
MW-6	"	1117		✓	"			✓	✓	✓	✓			258243
MW-8	"	1133		✓	"			✓	✓	✓	✓			258244
MW-10	"	1150		✓	"			✓	✓	✓	✓			258245
MW-11	"	1207		✓	"			✓	✓	✓	✓			258246
MW-12	"	1215		✓	"			✓	✓	✓	✓			258247
VMW-1	"	1240		✓	"			✓	✓	✓	✓			258248

RELINQUISHED BY: (SIGN.) — DATE: 9-18-09 — TIME: 1035 — RECEIVED BY: (SIGN.)
RELINQUISHED BY: (SIGN.) — DATE: — TIME: — RECEIVED BY: (SIGN.)

DATE: 9/18/09 — TIME: 1035
DATE: — TIME:

X:\MISC\CHAIN1.vcd 1/31/

TEMP 5.2°

GD9189509

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 3/19/12	Site ID #: 08562	Site Name: Former Rhodes Service Station
County: Spartanburg	Project Manager: Quincy Hoffer	Field Personnel: Q.H. + Kyle Patterson

Well Gauging Information

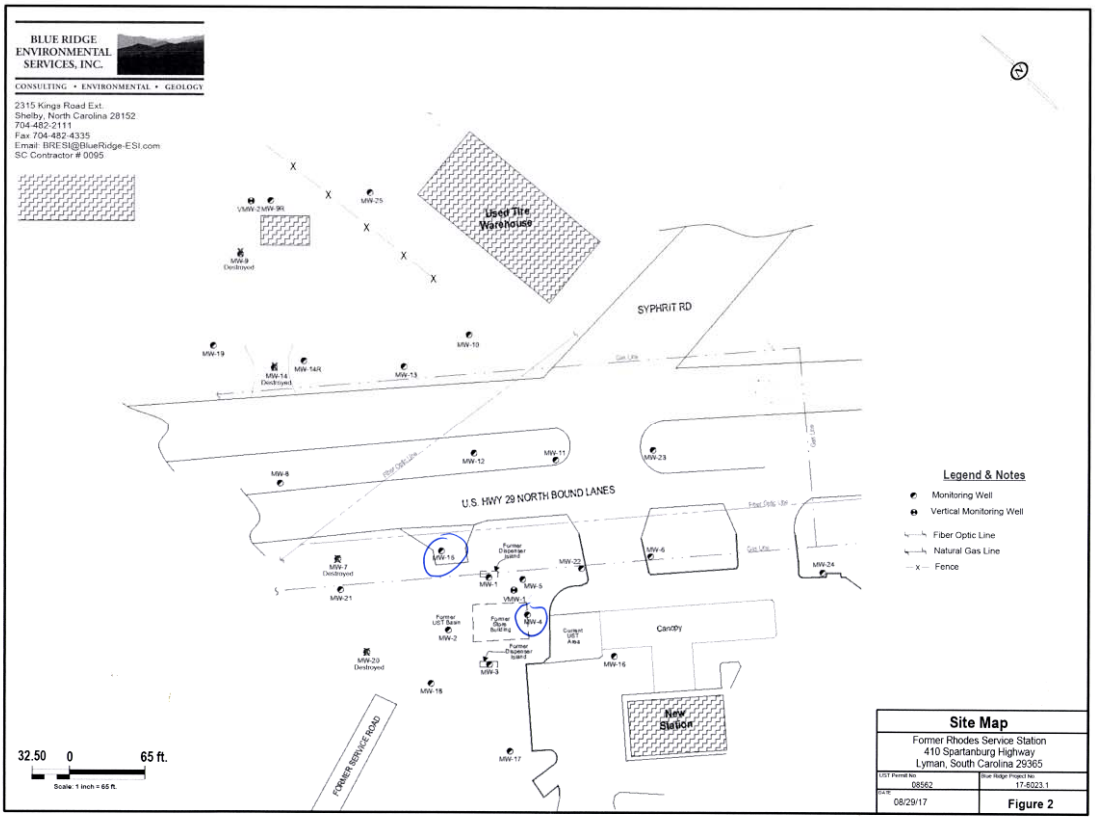
Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-4	30'	10-30'	16'9"	17'	(3")	Y	Y	Y	Y	Y
MW-15	30'	10-30'	N/A	16' 2"	N/A	N	Y	Destroyed	N/A	N/A

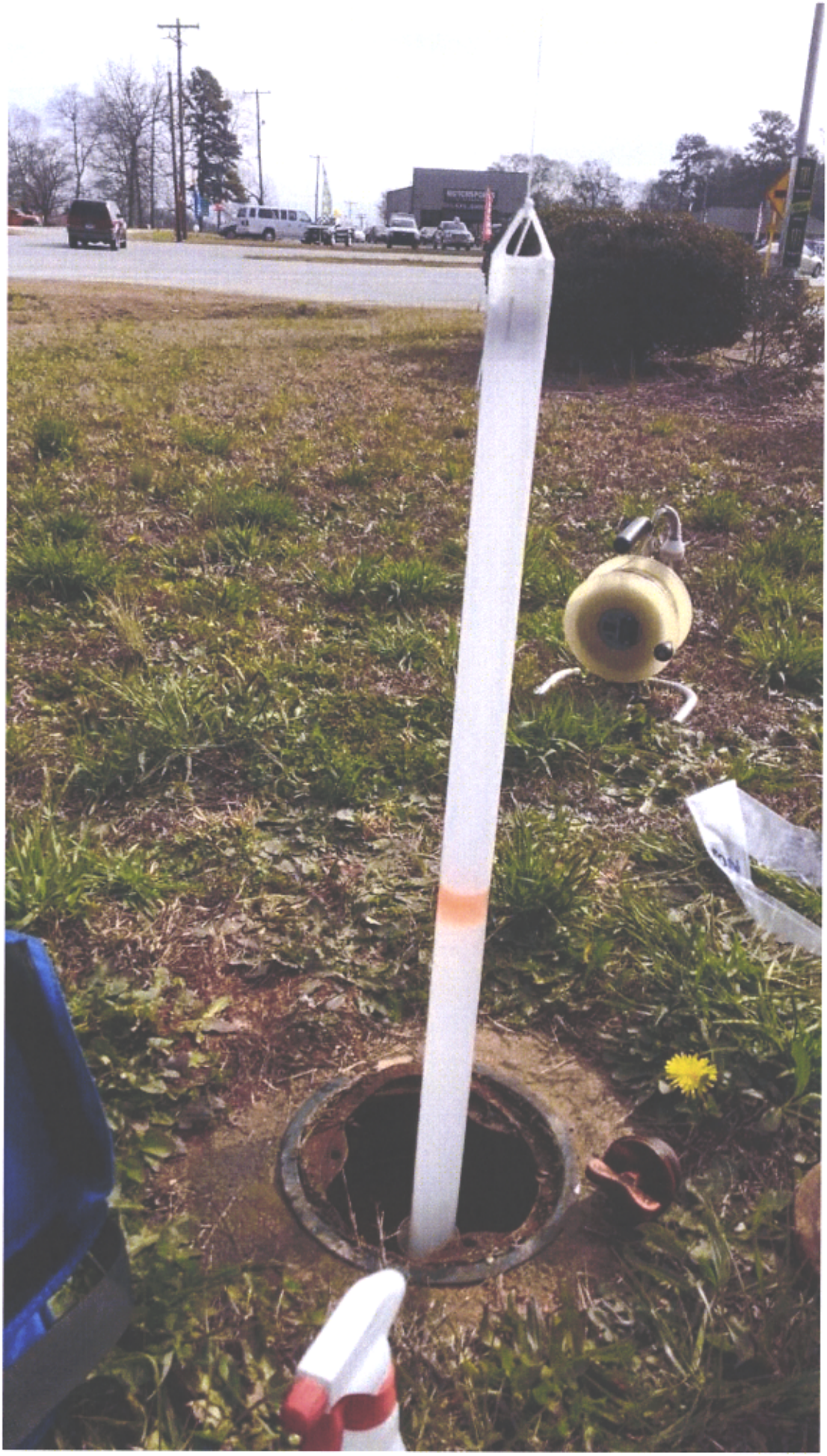
UST 20 Year DOCKETING

Notes: MW-4: Picture 3

MW-15: Well vault completely destroyed. Well casing is intact and has a well cap. Picture 4

Signature:


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095
Used Tire Warehouse
SYPHRIT RD
U.S. HWY 29 NORTH BOUND LANES
Canopy
New Station
FORMER SERVICE ROAD
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7 Destroyed
MW-8
MW-9 Destroyed
MW-10
MW-11
MW-12
MW-13
MW-14 Destroyed
MW-14R
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20 Destroyed
MW-21
MW-22
MW-23
MW-24
MW-25
VMW-2
VMW-3
Former Dispenser Island
Former UST Basin
Former Store Building
Current UST Area
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
Site Map
Former Rhodes Service Station
410 Spartanburg Highway
Lyman, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.1
DATE 08/29/17
Figure 2



dhec
Healthy People. Healthy Communities.

APR 0 2 2018

ODOM OIL COMPANY
PO BOX 1291
SPARTANBURG SC 29304-1291

Re: **Recovery Well Installation, Monitoring Well Repair, and AFVR Directive**
Rhodes Service Station, 410 Spartanburg Highway, Wellford, SC
UST Permit #08562; CA #56708; MWA#: UMW-26973
Release Reported January 24, 1990
Site Specific Work Plan Received December 29, 2017
Spartanburg County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control recognizes your commitment to continue work at this site Blue Ridge Environmental Services, Inc. as your contractor. The next appropriate scope of work at this site is well repairs, installation of two recovery wells, and an AFVR event. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 3.1, and must be conducted in compliance with all applicable regulations. A copy of the DHEC's QAPP Rev. 3.1, for the UST Management Division is available at http://www.scdhec.gov/environment/LW/UST/ReleaseAssessmentCleanup/QualityAssurance/.

Cost agreement #56096 has been approved for the amount shown on the enclosed cost agreement form for the repair of MW-15, installation of two recovery wells, 96-hour AFVR event. Recovery well installation activities should begin immediately upon receipt of this letter.

Monitoring Well #15 requires a new vault, pad, well cover, redevelopment and well tag. The two recovery wells will be installed in the proposed locations on the enclosed figure. They will be 4 inches in diameter and installed to a depth of 35 feet. These wells will be screened from 15 feet to 35 feet.

After the installation of the recovery wells, a 96-hr AFVR event should be conducted at the site approximately 21 days apart on MW-4, and the newly installed recovery wells. The stingers shall be lowered at six inch intervals starting at the water table interface to the target depth of 27 feet. After the target depth has been reached, the stingers should be placed as to maximize FP and/or vapor recovery.

The AFVR and invoice are due within 60 days from the date the AFVR is concluded. The report submitted at the completion of these activities should include the required information outlined in the QAPP. It should also contain SCDHEC Form 1903 and monitoring well logs for the newly installed recovery wells. Please note that all applicable South Carolina certification requirements apply to the services and report preparation.

Blue Ridge Environmental Services, Inc. can submit an invoice for direct payment from 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 the 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 DHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the DHEC for the cost to be paid. The 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, the 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.

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 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 #08562 and CA #56708. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0655 or by e-mail at hofferqm@dhec.sc.gov.

Sincerely,

Ashleigh Thrash -for-

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

enc: Cost Agreement
Photo of MW-15
Proposed Recovery Well Locations
Monitoring Well Approval Letter

cc: Blue Ridge Environmental Services, Inc., 2315 Kings Rd. Ext., Shelby, NC 28512-6233 (w/enc)
Technical File (w/enc)

Healthy People. Healthy Communities.

Monitoring Well Approval

Approval is hereby granted to: Blue Ridge Environmental Services, Inc.
(on behalf of): Odom Oil Company
Facility: Rhodes Service Station (Former), 410 Spartanburg Hwy., Wellford, SC
UST Permit Number: 08562
County: Spartanburg

This approval is for the installation of two shallow 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 Quincy Hoffer the project manager (tel: (803) 898-0655 or e-mail: hofferqm@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: March 30, 2018 **Approval #: UMW-26973**

Ashleigh Thrash-Br

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 56708

Facility: 08562 RHODES SERVICE STATION
HOFFERQM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		A1 EQUIPMENT	1.0000	$1,020.000	1,020.00
		B1 PERSONNEL	3.0000	$423.000	1,269.00
09 WELL INSTALLATION					
		HH RECOVERY WELL (4 INCH DIA)	70.0000	$45.000	3,150.00
		K RE-DEVELOP EXISTING WELL	30.0000	$11.000	330.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$28,691.250	3,442.95
23 EFR					
		A4 96 HOUR EVENT	1.0000	$12,567.500	12,567.50
		C4 OFF GAS TREATMENT 96 HOUR	1.0000	$780.000	780.00
		D SITE RECONNAISSANCE	1.0000	$203.250	203.25
		F1 EFFLUENT DISPOSAL	20,000.0000	$0.440	8,800.00
		G AFVR EQUIPMENT MOB	1.0000	$391.500	391.50
25 WELL REPAIR					
		B1 REPAIR 2X2 MONITORING WELL PAD	1.0000	$50.000	50.00
		D1 REPLACE WELL VAULT	1.0000	$118.000	118.00
		K1 REPLACE MISSING WELL ID PLATE	1.0000	$12.000	12.00
				Total Amount	32,134.20

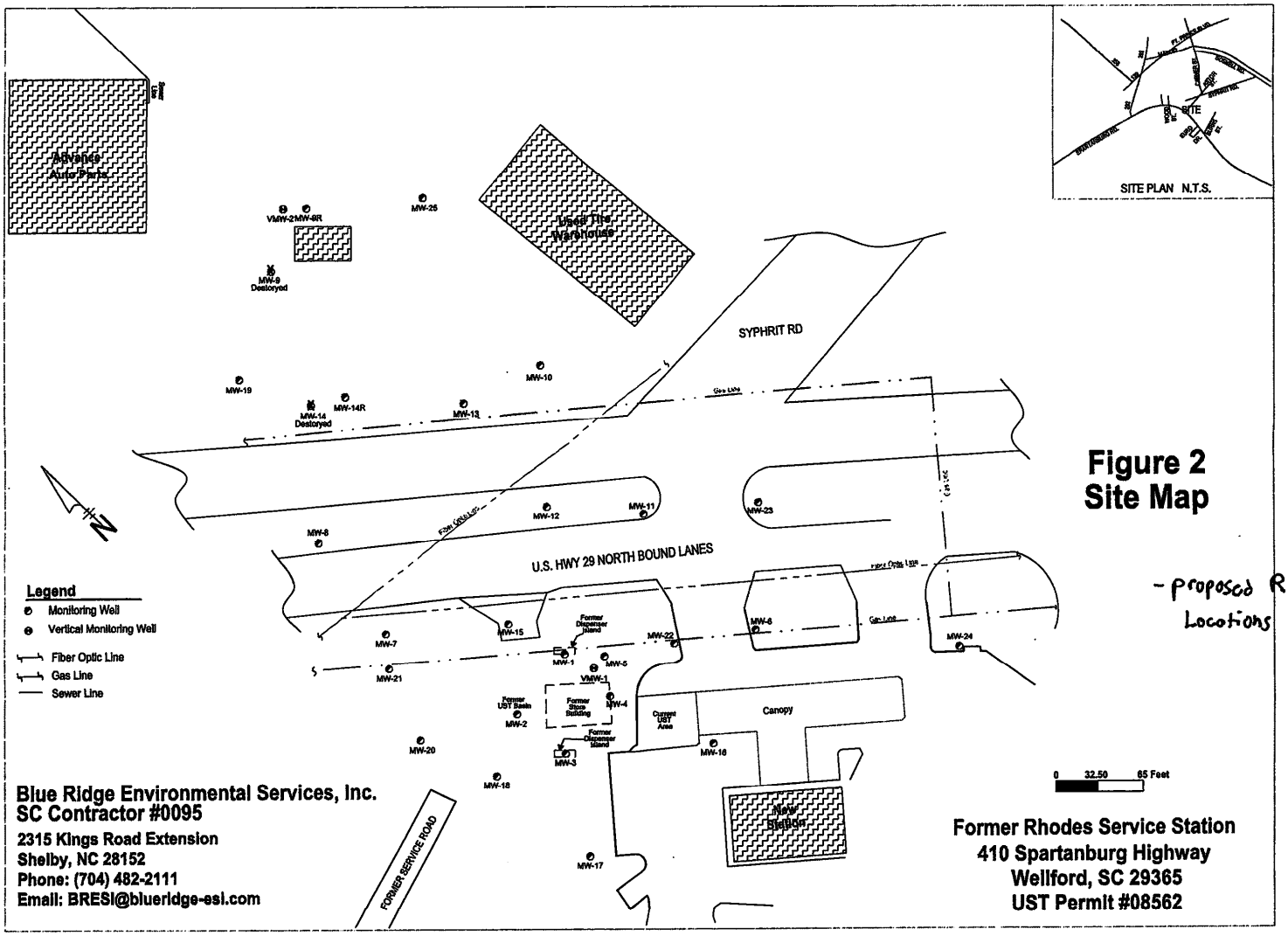


Figure 2
Site Map

- proposed RV Locations

Blue Ridge Environmental Services, Inc.
SC Contractor #0095
2315 Kings Road Extension
Shelby, NC 28152
Phone: (704) 482-2111
Email: BRESI@blueridge-esi.com

Former Rhodes Service Station
410 Spartanburg Highway
Wellford, SC 29365
UST Permit #08562

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received July 10, 2018

Permit Number 085602

Project Manager Quincy Hoffer

Name of Contractor Blue Ridge Env Services

UST Certification Number Recovery well Installation Well Repair & 90 Hr AFVR Report

Docket Number 22Tech

Scanned _____

Recovery Well Installation, Well Repair & 96-Hour AFVR Report

UST Permit No. 08562
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
Blue Ridge Project No. 17-6023.2

Prepared for:
Odom Oil Company
Mr. Robert F. Turner
655 Perrin Drive
Spartanburg, South Carolina 29307

July 6, 2018

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CONSULTING • ENVIRONMENTAL • GEOLOGY

Prepared by:
Blue Ridge Environmental Services, Inc.
2315 Kings Rd. Extension
Shelby, North Carolina 28152
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(F) 704.482.4335
BRESI@BlueRidge-ESI.com
SC Contractor: 0095

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Shelby, North Carolina 28152
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(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095

July 6, 2018

Mr. Quincy Hoffer
South Carolina Department of Health & Environmental Control
Corrective Action and Quality Assurance Section
UST Management Division
2600 Bull Street
Columbia, SC 29201

Subject: **Recovery Well Installation, Well Repair & 96-Hour AFVR Report**
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.2

Dear Mr. Hoffer:

Blue Ridge Environmental Services, Inc. (Blue Ridge) is pleased to present the results of the recovery well installation/monitoring well repair activities and the 96-Hour Aggressive Fluid and Vapor Recovery (AFVR) event performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost agreement number 56708, per correspondence from your office dated April 2, 2018. The locations of the newly installed recovery wells and all associated monitoring wells with the Site are depicted on Figure 2 – Site Map. The 96-Hour AFVR event monitoring well and recovery wells used for extraction are illustrated on Figure 3 – AFVR Site Map.

Introduction

1. UST Facility Name: Rhodes Service Station (Former)
   UST Permit Number: 08562
   Address: 410 Spartanburg Highway, Wellford, SC 29365
   Phone Number: (864) 949-6800

2. UST Owner: Odom Oil Company
   Address: 655 Perrin Drive, Spartanburg, South Carolina 29307
   Phone Number: (864)-706-5182

3. UST Operator: N/A
   Address: N/A
   Phone Number: N/A

4. Property Owner Name: Service Oil Company
   Address: P.O. Box 3255, Spartanburg, SC 29304
   Phone Number: 864-583-3688

5. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.
   Address: 2315 Kings Road Ext., Shelby, NC 28152
   SCDHEC Certified Contractor Number: 0095

6. SCDHEC Certified Well Driller: Environmental Drilling & Probing Services, LLC.
   Address: 17538 Greenhill Road, Charlotte, North Carolina, 28278
   Phone Number: (704) 607-7529
   SCDHEC Certified Driller Certification Number: 2200

Facility History

The Former Rhodes Service Station (Site) is in Spartanburg County, South Carolina, located at 410 Spartanburg Highway. The Site is located in an area of mixed commercial property within the city limits of Wellford. The location of the Site and surrounding topography is shown on Figure 1. The original Site building and service station was decommissioned and removed at an unknown date. The Site currently consists of a vacant vegetated lot and convenience store/gasoline service station (Citgo) operating adjacent to the original Site location.

According to the South Carolina Department of Health and Environmental Control (SCDHEC), two (2) 4,000-gallon and two (2) 2,000-gallon single walled steel gasoline Underground Storage Tanks (USTs) were previously located at the Site and were reportedly removed on November 11, 1911. The actual installation dates for USTs #1 through #4 at the Site are unknown and the location and orientation of the former UST system components are unknown. A release was reported to SCDHEC on January 24, 1990. The release was caused by a leaking UST system with an unknown quantity of product released. The former UST system is described in detail on the table below titled Former USTs Located Onsite.

Former UST's Located On-site

UST #	Product	Date Installed (Year)	Currently in use (Yes or No)	Tank Size	If not in use, Date Removed	Removed (Yes or No)
1	Gasoline	Unknown	No	2,000	11/11/1911[1]	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes
4	Gasoline	Unknown	No	4,000	11/11/1911	Yes

[1] UST system was installed on an unknown date that is reported as November 11, 1911 by the SCDHEC UST Registry

A Tier I was conducted at the Site by Blue Ridge in 2000. A Tier II "Additional Assessment" to horizontally and vertically define the plume was completed in 2009. Groundwater monitoring events and Aggressive Fluid Vapor and Recovery (AFVR) events have occurred variously by Blue Ridge since 2009.

Regional Geology and Hydrogeology

The site is in the Inner Piedmont within the Piedmont Physiographic Province. The Inner Piedmont Belt is characterized by upper amphibolite facies granite gneiss, mica schist, migmatites, and granotoid rocks with low to moderately dipping recumbent folds. The igneous and metamorphic rocks are weathered to saprolite and near the surface to residual soil. Depths and thicknesses of soil and saprolite vary widely, from less than one to hundreds of feet thick; generally, it is thin on ridges and thicker on slopes and broad uplands.

The Piedmont groundwater system is a two-part system consisting of regolith, composed of a granular layer of soil and saprolite and thin, discontinuous alluvial deposits, overlying fractured, crystalline bedrock. Hydraulically, the regolith functions as the reservoir of the system and the bedrock fractures as pipelines that transmit water from the regolith to natural discharge areas. In detail, the regolith consists of a porous and permeable soil zone that grades downward into saprolite, which in turn, grades into unweathered rock. In saprolite, water flows through interstitial pore space while in unweathered rocks, flow is via fractures. Groundwater in the Piedmont occurs in a shallow saturated zone in saprolite and more commonly in a much thicker bedrock "aquifer". Saturated saprolite is hydraulically connected in most areas to the underlying bedrock.

Recovery Well Installation

On April 30th, 2018, Blue Ridge mobilized to the Site along with SC certified well drillers Environmental Drilling and Probing Services (EDPS) of Charlotte, NC to install two (2) permanent recovery wells 08562-RW-1 and 08562-RW-2 in the vicinity of monitoring well 08562-MW-4 that has historically contained Free Phase Product (FPP). The recovery wells (08562-RW-1 & 08562-RW-2) were installed to the target depth of 35 feet with 15 feet of screen. The recovery well construction records and logs are included as Appendix A. The locations of the newly installed recovery wells and all associated monitoring wells with the Site are depicted on Figure 2 – Site Map.

Prior to developing the recovery wells a minimum of 24 hours after well completion, on May 5th, 2018, static water levels were recorded and the length of the water column was calculated. However, due to the presence of FPP in 08562-RW-1 (0.04') and 08562-RW-2 (0.03'), development was not completed at the time. Well Development Forms with recorded groundwater elevation data can be viewed as Appendix B. A soil disposal manifest and weight ticket for contaminated soil from the recovery well installations are included as Appendix C.

Monitoring Well Repair/Re-Development

A new well vault and cover, concrete pad, well identification tag and lock were all replaced by Blue Ridge for monitoring well 08562-MW-15 per your directive associated with cost agreement number 56708. The repairs are noted and can be viewed in the Photo Log included as Appendix H.

The newly repaired monitoring well 08562-MW-15 was also re-developed on June 15, 2018 by alternately surging and removing water using a Water Spout II 12 volt submersible pump. Prior to developing the monitoring well, the static water level was recorded and the length of the water column was calculated. Groundwater was developed from the well until field measurements of pH, specific conductivity, temperature and turbidity stabilized within 10 percent or turbidity was less than or equal to 10 Nephelometric Turbidity Units (NTUs) or the well was pumped dry. Please note that due to the presence of FPP in recovery wells 08562-RW-1 and 08562-RW-2, well development was not completed for these wells.

A total of 10 gallons of contaminated development water was removed from monitoring well 08562-MW-15 and disposed of at Advanced Environmental Options (AEO), a certified wastewater disposal facility located in Spartanburg, SC, due to historical exceedances of the Risk Based Screening Levels (RBSLs) in 08562-MW-15. Well Development Forms can be viewed as Appendix B and a Wastewater Disposal Manifest for development groundwater is included as Appendix D.

96-Hour Aggressive Fluid Vapor Recovery Event

On May 29th, 2018 through June 2nd, 2018, a minimum of 21 days after the installation of recovery wells 08562-RW-1 and 08562-RW-2, a 96-Hour AFVR event was conducted on monitoring well 08562-MW-4 and recovery wells 08562-RW-1 and 08562-RW-2. The AFVR event was conducted by A & D Environmental Services, Inc. (A&D) of Lexington, South Carolina.

An estimated total of one hundred and fifty-eight (158) gallons of FPP was recovered as liquid and observed in the tankers before the effluent was transported off-site. The 96-Hour AFVR event was conducted using off-gas treatment to reduce air emissions and maintained a minimum 80% reduction rate per required interval measurements. The following table provides the duration of the event, total volume of fluids recovered during each 96-hour AFVR event, the total volume of liquid FPP recovered during the event and the amount of calculated gallons of petroleum Volatile Organic Compounds (VOCs) removed as vapors.

Total Volume of Fluids/Emissions Recovered
May 29th, 2018 through June 2nd, 2018

Well ID	Date	Event Duration (hrs.)	Total Volume of Water Recovered (gal)	Total Volume of Liquid Free Phase Product Recovered (gal)	Total Volume of Petroleum Removed as Vapor (gal)
08562-MW-4 08562-RW-1 08562-RW-2	5/29/18 to 6/2/18	96	12,151	158	21.98

Please refer to Appendices E through G for the 96-Hour AFVR Event Summary and Field Data Sheets (airflow and vacuum gauge measurements in surrounding wells), AFVR Data Sheets – Emissions Data & Calculations (Emissions Data & Mass Removal Calculations), and copies of the effluent disposal manifests, weight tickets and tanker chart from the AFVR event conducted. The following table below provides pre-recovery and post-recovery depth to water and depth to product levels in specific on-site AFVR event monitoring and recovery wells and observation wells. The product/water levels were determined using an interface probe and/or water level indicator where applicable. Post product/water levels were obtained after the event was completed.

Pre/Post Event Water Levels
May 29th, 2018 through June 2nd, 2018

Well ID	Initial Stinger Depth (ft.)	Final Stinger Depth (ft.)	Pre-Event			Post-Event		
			DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (ft.)
08562-MW-4*	17.6	18	16.06	16.18	0.12	---	18.53	---
08562-RW-1*	17.6	18	16.15	16.17	0.02	---	17.60	---
08562-RW-2*	17.6	18	15.79	15.81	0.02	---	17.57	---
08562-MW-3	---	---	---	16.02	---	---	16.35	---
08562-MW-5	---	---	---	15.94	---	---	16.94	---

* AFVR Extraction Well

Blue Ridge recommends a comprehensive site sampling event to determine the effectiveness of the 96-Hour AFVR event on FPP and contaminant concentration reduction and to determine overall Site conditions. If you have any questions regarding this matter or need further information, please do not hesitate to contact us at (704) 482-2111.

Respectfully submitted,
Blue Ridge Environmental Services, Inc.

Jeffrey R. White
Environmental Scientist

Kenneth A. Pimienta
Geologist/Project Manager

Cliff R. Lundgren, P.G.
Senior Consultant / President
SC Registration #2045

CC: Mr. Robert F. Turner

Enclosures

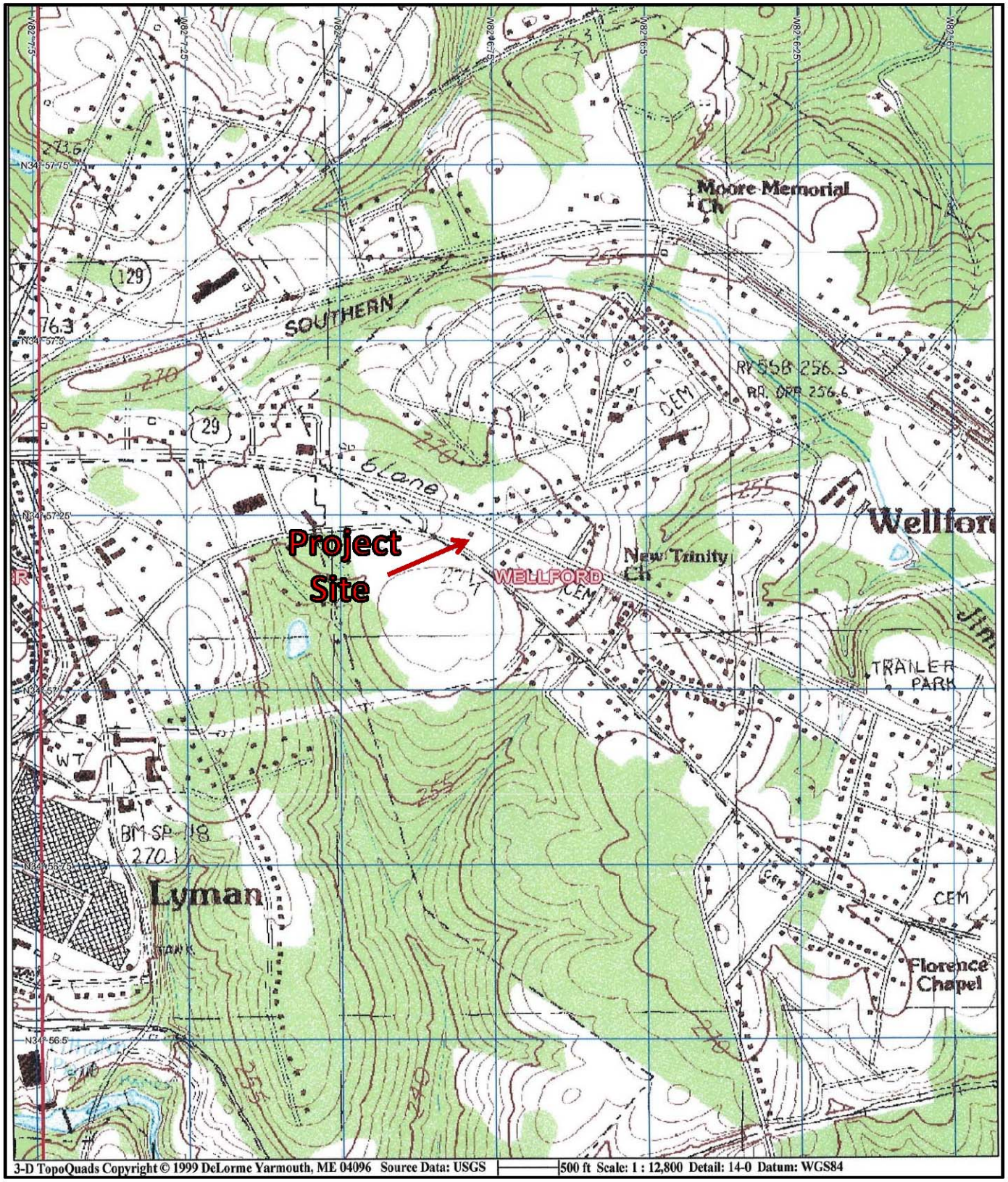
Figures
Figure 1 - Topographic Map
Figure 2 - Site Map
Figure 3 - AFVR Site Map

Tables (Located in Text)

- Former USTs Located On-site
- Total Volume of Fluids/Emissions Recovered
- Pre/Post Event Water Levels

Appendices
Appendix A - Recovery Well Construction Records & Logs
Appendix B - Well Development Data Verification Forms
Appendix C - Soil Disposal Manifest & Weight Ticket
Appendix D - Wastewater Disposal Manifest (Development)
Appendix E - AFVR Summary Sheet & AFVR Field Data Sheets
Appendix F - AFVR Data Sheets – Emissions Data & Calculations
Appendix G - Effluent Disposal Manifests, Weight Tickets & Tanker Chart
Appendix H - Photo Log
Appendix I - Contractor Checklist

FIGURES



TOPOGRAPHIC MAP

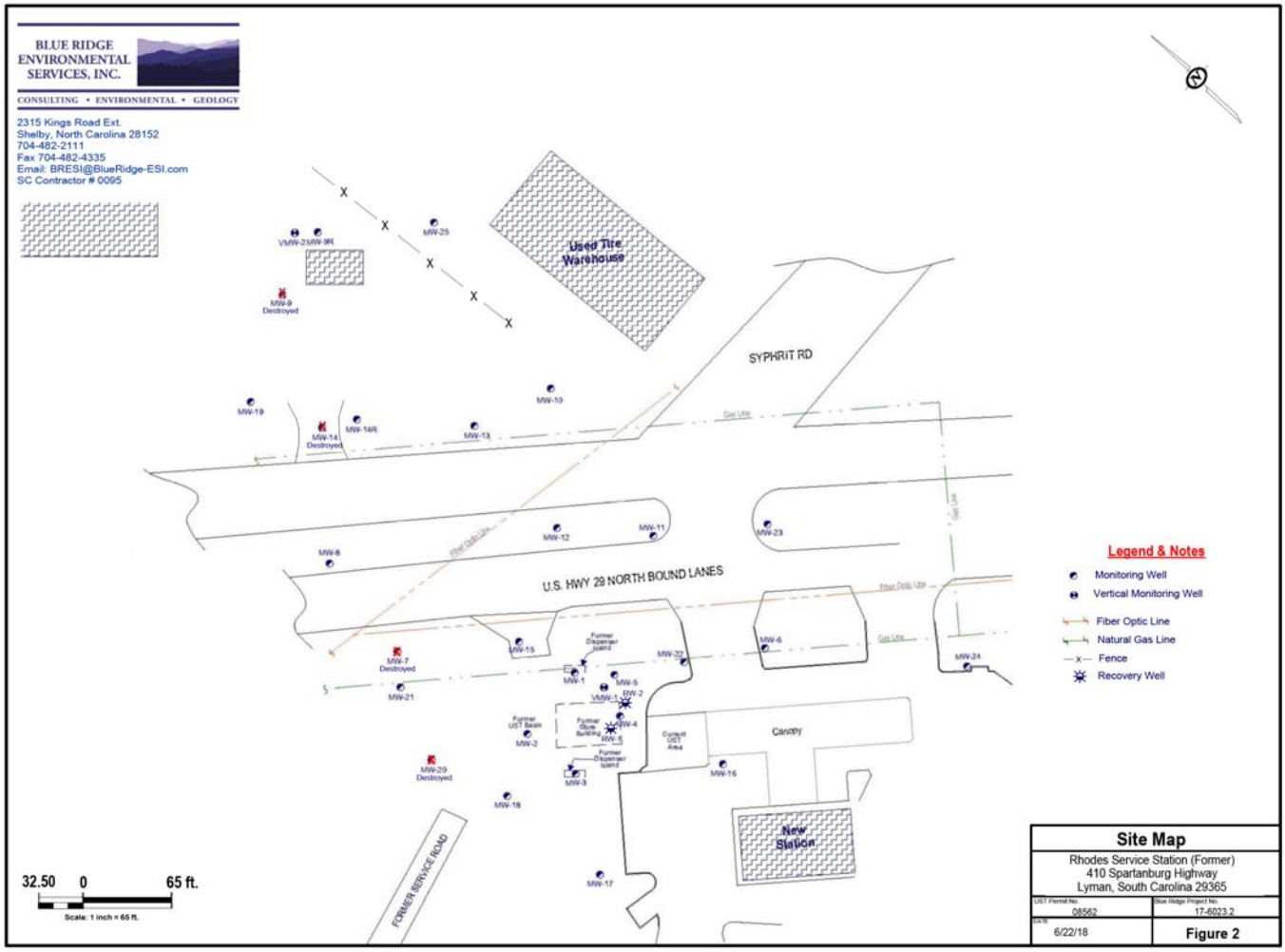
0 1,111 ft.

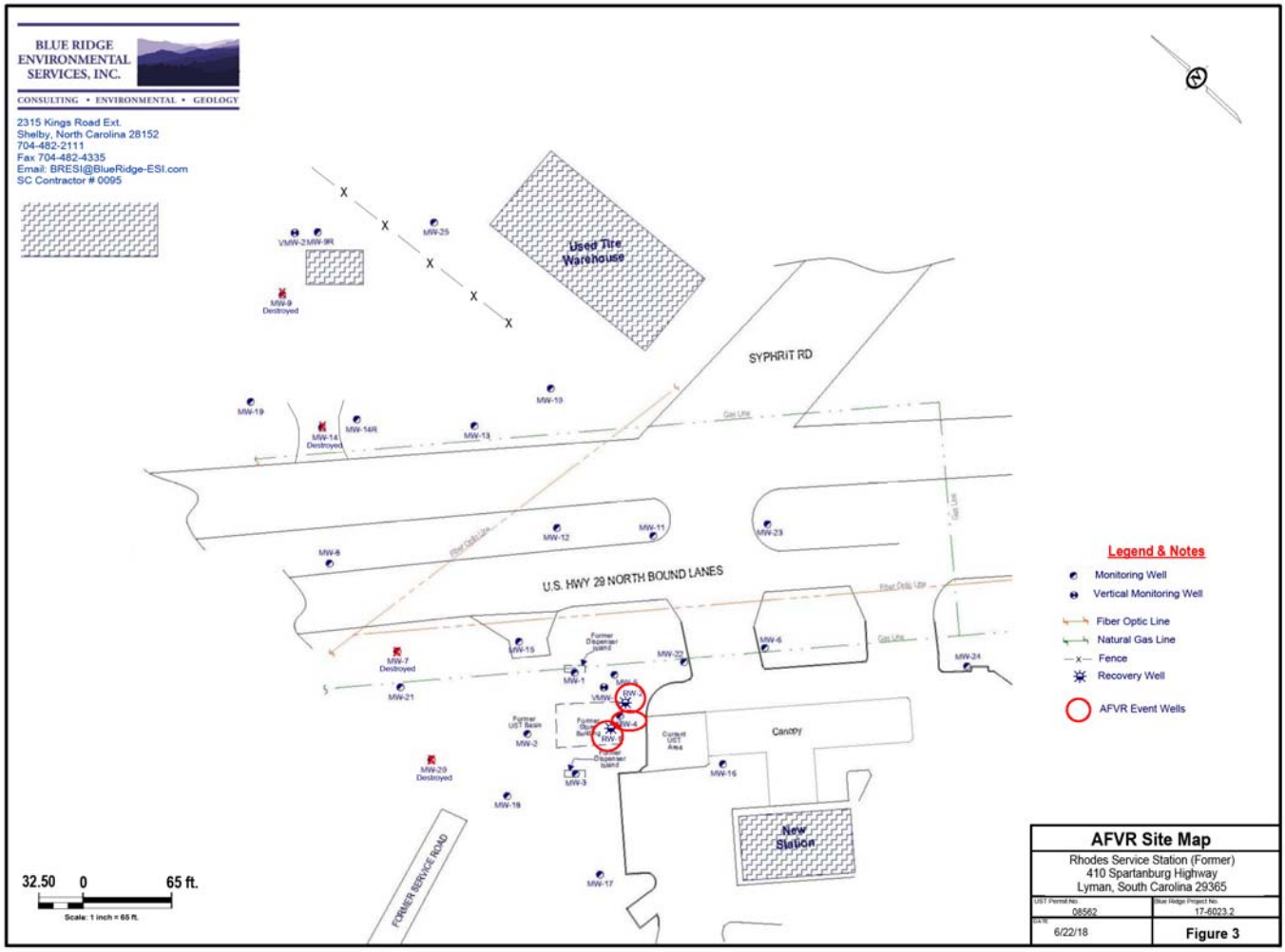
North

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor: # 0095

Client:	Robert F. Turner
Project:	Rhodes Service Station (Former)
Location:	410 Spartanburg Highway South
	Lyman, South Carolina 29365
Blue Ridge Project #:	17-6023.2
Date: 6/29/18	Approximate Scale: 1" = 1,111' — Figure 1


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095
Used Tire Warehouse
SYPHRIT RD
U.S. HWY 29 NORTH BOUND LANES
FORMER SERVICE ROAD
Canopy
New Station
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7 Destroyed
MW-8
MW-9 Destroyed
MW-11
MW-12
MW-13
MW-14 Destroyed
MW-14R
MW-15
MW-16
MW-17
MW-18
MW-19
MW-21
MW-23
MW-24
MW-25
MW-29 Destroyed
VMW-1
VMW-2
RW-1
RW-2
Former Dispenser Island
Former UST Basin
Former Store Building
Current UST Area
Gas Line
Fiber Optic Line
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
Recovery Well
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
Site Map
Rhodes Service Station (Former)
410 Spartanburg Highway
Lyman, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.2
DATE 6/22/18
Figure 2


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
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2315 Kings Road Ext.
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SC Contractor # 0095
Used Tire Warehouse
SYPHRIT RD
U.S. HWY 29 NORTH BOUND LANES
Canopy
New Station
FORMER SERVICE ROAD
MW-25
VMW-2
MW-9R
MW-9 Destroyed
MW-19
MW-14 Destroyed
MW-14R
MW-13
MW-12
MW-11
MW-23
MW-8
MW-7 Destroyed
MW-15
MW-6
MW-24
MW-21
MW-1
MW-4
VMW-1
RW-2
RW-1
RW-4
MW-2
MW-3
MW-29 Destroyed
MW-16
MW-18
MW-17
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
Recovery Well
AFVR Event Wells
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
AFVR Site Map
Rhodes Service Station (Former)
410 Spartanburg Highway
Lyman, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.2
DATE 6/22/18
Figure 3

APPENDICES

APPENDIX A

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: Odom Oil Company (last) (first)
Address: P.O. Box 1291
City: Spartanburg State: SC Zip: 29304-1291
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg Highway
City: Wellford Zip: 29365-0000
Latitude: 34N 57' 13.704 Longitude: 82W 6' 47.3502

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☐ No
Give Details Below
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass/Organics	0.25'	0.25'
Brown to Red Clayey SILT	4.75'	5'
Brown to Red Sandy SILT	20'	25'
Brown Mica Sandy SILT	10'	35'
VOC @ 3'-5'	802	
VOC @ 8'-10'	1,102	
VOC @ 13'-15'	1,307	

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
08562-RW-2

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW- 26973

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 35 ft. Date Started: 4/30/18 Date Completed: 4/30/18

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 15 ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20'
Set Between: 15 ft. and 35 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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 (please enclose) ☑ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 12' ft. to 35' ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 0' ft. to 12' 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 ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jacob Kiker CERT. NO.: 2200
Address: (Print) 17538 Greenhill Rd. Charlotte NC 28278
Level: A (B) C D (circle one)
Telephone No.: 704.607.7529 Fax No.: 803.548.7733

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: ____ Date: 5-15-18
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: Odom Oil Company (last) (first)
Address: P.O. Box 1291
City: Spartanburg State: SC Zip: 29304-1291
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg Highway
City: Wellford Zip: 29365-0000
Latitude: 34N 57' 13.614 Longitude: 82W 6' 47.4726

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☐ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass/Organics	0.25'	0.25'
Brown to Red Clayey SILT	7.75'	8'
Brown to Purple Sandy SILT	17'	25'
Brown Mica Sandy SILT	10'	35'
VOC @ 3'-5'	0	
VOC @ 8'-10'	4.8	
VOC @ 13'-15'	10	

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
08562-RW-1

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW- 26973

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 4/30/18
35 ft. Date Completed: 4/30/18

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 15 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20'
Set Between: 15 ft and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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 (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 12' ft. to 35' ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0' ft. to 12' 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 _____ ft. Capacity _____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jacob Kiker **CERT. NO.:** 2200
Address: (Print) 17538 Greenhill Rd. Charlotte NC 28278
Level: A (B) C D (circle one)
Telephone No.: 704.607.7529 Fax No.: 803.548.2283

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: _____ Date: 5/15/18
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com

Monitoring Well Log

Well Construction Permit Number *UMW-26973*

I. D. Number	*08562-RW-1*	**Purpose**	*Additional Assessment*
Project Name	*Rhodes Service Station*	**Contractor**	*Environmental Drilling & Probing Services*
Permit No.	*08562*	**Registration No.**	*2200*
Geologist	*Jeff White*	**Driller**	*Jake Kiker*
Start Date	*4/30/2018* **Complete Date** *4/30/2018*	**Equipment**	*Geoprobe*

Drilling Method: **Rotary Auger**
Comments: *See Location on Site Map and Ground Water Chemicals of Concern Map*

Depth From - To	Subsurface Description / Comments	PID (ppm) @ Depth (ft.)	Well Construction Information	
0 - 0.25'	*Grass/Organics*	*0 @ 3'-5'*		
0.25' - 8'	*Brown to Red Clayey SILT*	*4.8 @ 8'-10'*		
8' - 25'	*Brown to Purple Sandy SILT*	*10 @ 13'-15'*		
25' - 35'	*Brown Micaceous Sandy SILT*			
-				
-				
-				
-			**Borehole Dia.**	*7"*
-			**Riser Type**	*PVC*
-			**Diameter**	*4"*
-			**Screen Type**	*PVC*
-			**Diameter**	*4"*
-			**Riser Interval**	*0 - 15'*
-			**Screen Interval**	*15 '- 35'*
-			**Slot Size**	*0.01*
-			**Grout Type**	*I*
-			**Interval**	*0 - 10'*
-			**Bentonite Type**	*Pellets*
-			**Interval**	*10 '- 12'*
-			**Filter Pack**	*Sand*
-			**Interval**	*12' - 35'*
-			**Total Depth**	*35'*
-			**R.P.* Elevation**	
-			**Datum**	
-			**Water Level Information**	
-			**Date**	**W.L.Below R.P.**
-			*4/30/2018*	*16.53*
-				
-				

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*
PID = Photo-ionization Device ** TOC = Top of casing* *GS = Ground surface*

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com

Monitoring Well Log

Well Construction Permit Number *UMW-26973*

I. D. Number	*08562-RW-2*	**Purpose**	*Additional Assessment*
Project Name	*Rhodes Service Station*	**Contractor**	*Environmental Drilling & Probing Services*
Permit No.	*08562*	**Registration No.**	*2200*
Geologist	*Jeff White*	**Driller**	*Jake Kiker*
Start Date	*4/30/2018* **Complete Date** *4/30/2018*	**Equipment**	*Geoprobe*

Drilling Method: **Rotary Auger**
Comments: *See Location on Site Map and Ground Water Chemicals of Concern Map*

Depth From - To	Subsurface Description / Comments	PID (ppm) @ Depth (ft.)	Well Construction Information	
0 - 0.25'	*Grass/Organics*	*802 @ 3'-5'*		
0.25' - 5'	*Brown to Red Clayey SILT*	*1,102 @ 8'-10'*		
5' - 25'	*Brown to Red Sandy SILT*	*1,307 @ 13'-15'*		
25' - 35'	*Brown Micaceous Sandy SILT*			
-				
-				
-				
-			**Borehole Dia.**	*7"*
-			**Riser Type**	*PVC*
-			**Diameter**	*4"*
-			**Screen Type**	*PVC*
-			**Diameter**	*4"*
-			**Riser Interval**	*0 - 15'*
-			**Screen Interval**	*15 '- 35'*
-			**Slot Size**	*0.01*
-			**Grout Type**	*I*
-			**Interval**	*0 - 10'*
-			**Bentonite Type**	*Pellets*
-			**Interval**	*10 '- 12'*
-			**Filter Pack**	*Sand*
-			**Interval**	*12' - 35'*
-			**Total Depth**	*35'*
-			**R.P.* Elevation**	
-			**Datum**	
-			**Water Level Information**	
-			**Date**	**W.L.Below R.P.**
-			*4/30/2018*	*16.25*
-				
-				

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*
PID = Photo-ionization Device ** TOC = Top of casing* *GS = Ground surface*

APPENDIX B

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Rhodes Service Station Site ID#: 08562

Date: 5/16/18 Field Personnel: JW

Drilling Company: BRESI Driller's Name: Jeff White

Driller's Certification Number: 2234 Weather Conditions: Cloudy

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 0950

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. TOYGTOH2	serial no. 11 1	serial no. 11 11	serial no. 4 71
pH=4.0 ✓	standard ✓		NTU=0.0 ✓
pH=7.0			NTU=1.0
pH=10.0			NTU=10.0

Drilling Method – Re-Development of existing well

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# MW-15 Well Casing Diameter 2 inches Borehole Diameter N/A inches

Depth to Ground Water (DGW) 15.46 ft. Screen Length/Slot Size 20 ft./ 2 in.

Total Well Depth (TWD) 30 ft. Screen Interval 10 ft. to 30 ft.

Length of water column (LWC=TWD-DGW) 14.54 ft. (2.32) Type of Drilling Fluids used: None

Total Gallons of Water Removed: 10 gals. Drilling Fluids recovered N/A gals.

Time (military)	1301	1310	1318	1325	1330	1335	
pH (s.u.)*	5.24	5.95	Dry	5.98	Dry	5.90	
Specific Conductivity (mmhos/cm)*	0.264	0.184		0.179		0.183	
Water Temperature (C)*	21.80	21.57		21.79		20.80	
Turbidity (NTU) *	1000+	1000+		1000+		527	
Physical Characteristics (color/odor)	odor/cloudy	11 11		11 11		clear/odor	
Water Level Measurement (ft) from TOC	15.46	11 11	11 11	11 11		11 11	
Total Well Depth (ft) from TOC	30	11 11	11 11	11 11		11 11	
Cumulative Gallons Removed	1 gals	4 gals	4½ gals	8½ gals	9 gals	10 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Pump + surge - First Recharge

Driller Signature: [signature] Date: 5/16/18

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Rhodes Service Station Site ID#: 08562

Date: 5/16/18 Field Personnel: JW

Drilling Company: BREST Driller's Name: Jeff White

Driller's Certification Number: 2234 Weather Conditions: Cloudy

Well Development Method

Surge Block ○ Submersible Pump ○ Air Lifting ○ N/A

* 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.	TOKG-TpH2	serial no.	〃	serial no.	〃	serial no.	〃
pH=4.0	✓	standard	✓			NTU=0.0	✓
pH=7.0						NTU=1.0	
pH=10.0						NTU=10.0	

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW-1 Well Casing Diameter 4 inches Borehole Diameter 8 inches

Depth to Ground Water (DGW) 16.31 / 16.35 ft. Screen Length/Slot Size 20 ft./ 4 in.

Total Well Depth (TWD) 35 ft. Screen Interval 15 ft. to 35 ft.

Length of water column (LWC=TWD-DGW) 12.15 ft. Type of Drilling Fluids used: None

Total Gallons of Water Removed: N/A gals. Drilling Fluids recovered N/A gals.

Time (military)							
pH (s.u.)*							
Specific Conductivity (mmhos/cm)*		No development					
Water Temperature (C)*							
Turbidity (NTU) *		0.04 FPP					
Physical Characteristics (color/odor)							
Water Level Measurement (ft) from TOC							
Total Well Depth (ft) from TOC							
Cumulative Gallons Removed	gals	gals	gals	gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: No development - 0.04 FPP

Driller Signature: [signature] Date: 5/16/18

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Rhodes Service Station Site ID#: 08562

Date: 5/16/18 Field Personnel: JW

Drilling Company: BRESI Driller's Name: Jeff Wilk

Driller's Certification Number: 2234 Weather Conditions: Cloudy

Well Development Method

Surge Block ○ Submersible Pump ○ Air Lifting ○ N/A

* 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.	TRX GTPH2	serial no.	"	serial no.	"	serial no.	"
pH=4.0	✓	standard	✓			NTU=0.0	✓
pH=7.0						NTU=1.0	
pH=10.0						NTU=10.0	

Drilling Method

Hollow Stem Augers ✓ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW-2 Well Casing Diameter 4 inches Borehole Diameter 8 inches

Depth to Ground Water (DGW) 16.00/16.03 ft. Screen Length/Slot Size 20 ft./ 4 in.

Total Well Depth (TWD) 35 ft. Screen Interval 15 ft. to 35 ft.

Length of water column (LWC=TWD-DGW) 12.36 ft. Type of Drilling Fluids used: None

Total Gallons of Water Removed: N/A gals. Drilling Fluids recovered N/A gals.

Time (military)							
pH (s.u.)*							
Specific Conductivity (mmhos/cm)*		No development					
Water Temperature (C)*							
Turbidity (NTU) *		0.03 FP					
Physical Characteristics (color/odor)							
Water Level Measurement (ft) from TOC							
Total Well Depth (ft) from TOC							
Cumulative Gallons Removed	gals	gals	gals	gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: No Development 0.03 FP

Driller Signature: [signature] Date: 5/16/18

APPENDIX C

PO 17-6023.2

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 49752

Date 5/4/18 Load Number _____

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Blue Ridge Environmental

Contact: Ken Pimienta Phone: (704) 482-2111 Fax: (704) 482-4335

GENERATOR: Rhodes Service Station

Address: 410 Spartanburg Highway, Welford SC County: Spartanburg

Contact: _____ Phone: _____

WASTE ORIGINATION POINT: Complete Address: 410 Spartanburg Highway Welford SC

Class & Type of Contaminate in soil Petroleum Based Soil

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

GENERATORS CERTIFICATION OF WASTE CONSTITUENTS: In lieu of submitting analytical data (methods 8240 and 8270) verifying that the waste in question does not contain organic constituents other than those which would normally appear in analysis of virgin petroleum product residue, I am submitting this Certificate of Waste Constituents. I certify that I am familiar with the source of contamination of the soil and further certify the source, to the best of my knowledge, contains no contaminants other than that listed above.

Generators Signature: Ken Pimienta (Blue Ridge) Date: 5/4/18

TRANSPORTER: Ken Pimienta (Blue Ridge)

Contact: Ken Pimienta (Blue Ridge) Phone: (704) 482-4335

As the carrier, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured, and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Carrier Signature: Ken Pimienta (Blue Ridge) Date: 5/4/18

13080
10640
2420

TRUCK #: _____ TAG #: _____ VOLUME: 1.21

TRUCK DRIVER SIGNATURE: Ken Pimienta (Blue Ridge) DATE: 5/4/18

DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: _____ Date: 5-4-18

Signature: Mak Caudill Date: 5-4-18

Company Name EBI Title: _____

White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

ENVIRONMENTAL SOILS, INC.
P.O. BOX 295
LATTIMORE, N.C. 28089-0489
704/434-0075
(704) 434-9533 FAX

Job Name: _____

Truck# _____

GROSS 13060 lb

Gross Wgt.: 03:56PM 05/04/2018

Tare Wgt: _____

Net Wgt.: _____

Tons: _____

Weighed by: _____

MtR

ENVIRONMENTAL SOILS, INC.
P.O. BOX 295
LATTIMORE, N.C. 28089-0489
704/434-0075
(704) 434-9533 FAX

Job Name: _____

Truck# _____

Gross Wgt.: _____

GROSS 10640 lb

Tare Wgt: 04:28PM 05/04/2018

Net Wgt.: _____

Tons: _____

Weighed by: _____

MtR

APPENDIX D

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E S Q G

Manifest Document No.: 1 1 3 4 2

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Sevice Station
410 Spartanburg Hwy South
Wellford, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-9111

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	DF ~~TF~~ G	10 ~~00030~~ EE	G
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) L/-

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact: David Hitchens 864-488-9111, Cell 864-590-4648
AEO Job #14669 PO#: 17-6023.2Mail all original (Top) copy of manifest to Blue Ridge Environmental.

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 Month	Day	Year
Jeffrey White	[signature]	5	24	18

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Jeffrey White	[signature]	5	24	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

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 Month	Day	Year
Brandy Pickmore	Brandy Pickmore	5	24	18

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

PRINTED ON RECYCLED PAPER USING SOYBEAN INK
PRINTED WITH SOY INK

APPENDIX E

June 14, 2018

Jeffrey White
Blue Ridge Environmental Services, Inc.
2315 Kings Mountain Extension
Shelby, NC 28152

RE: Summary Sheet – Rhodes Service Station
410 Spartanburg Highway
Welford, SC
A&D Project #1805-0281

Mr. White:

A&D Environmental performed a 96-Hour AFVR event at the Rhodes Service Station located at 410 Spartanburg Highway in Wellford in Clinton, South Carolina. The 96-hour event commenced on Tuesday, May 29, 2018 at 10:00am and ended at 10:00am Saturday, June 2, 2018. The event was conducted on monitoring well MW-4 and recovery wells RW-1 and RW-2.

Average/Stabilized Vacuum
Vacuum on the wells ranged from -15 to -17 inches HG and the air flow was a continuous 70 acfm.

Average/Stabilize Air Flow
During the event, the VOC readings ranged from low of 1025ppm to a high of 4416ppm.

Groundwater/Product Recovery
The 96-hour event produced 12,151 gallons of PCW which is an average of 126.57 gallons per hour. Three vacuum tanker loads of PCW was transported to VLS Recovery Services in Mauldin, South Carolina for waste water treatment. The first load carried 4,355 gallons of PCW with approximately 92 gallons of gasoline measured. The second load carried 4,391 gallons of PCW with approximately 43 gallons of gasoline measured. The third and final load carried 3,405 gallons of PCW with approximately 23 gallons of gasoline measured. The manifests and weight tickets for the three loads are attached.

Total VOC's Removed as Vapor

Readings for Pre and Post VOCs (ppm), temperature, relative humidity and flow were entered into our calculation sheets. Total emissions in pounds for event was calculated to be 137.35 or 21.98 gallons.

VOC's Emitted as Vapor

The MMPE unit is equipped with a FALCO 300 Electric Catalytic Oxidizer which treats air streams contaminated with volatile organic compounds (VOCs). The catalyst provides VOC destruction efficiencies up to 99.5%. Our measurements conducted throughout the event detected no VOCs were emitted after treatment.

Measurable Vacuum Influence Identified on Adjacent Observation Wells

A&D installed monitoring well plugs with caps on monitoring wells MW-3 and MW-5 to gauge influence during the first event. A Dwyer Series 475 Mark III Digital Manometer was utilized to measure the influence. The influence on the wells were measured every two hours and no influence was detected throughout the event.

Drawdown Measured on Adjacent Observation Wells

A&D utilized an interface probe to measure the drawdown on the adjacent observation wells. Below is the start and finish readings recorded. No product was detected in any of the wells.

Well Number	Starting Measurement	Ending Measurement
MW-3	16.02	16.34
MW-5	15.94	16.94

If you should have any questions or comments, please feel free to call or email me.

Sincerely,
A&D Environmental Services (SC), LLC

Bill Aikins
Project Manager
baikins@adenviro.com

AFVR Field Data Sheet

Client: Blue Ridge Environmental	Site: Citgo-Rhodes Station, 410 Spartanburg Highway, Wellford, SC	5/29/18 - 6/2/19	Job # 1805-0281
Technician:	MMPE Operator: Terry Green		

Time (hh:mm) Event Start 0930		Extraction Well-head Vacuum (in Hg)										Influence On Surrounding Wells Vacuum (in water)								Adjacent Well Water Level Measurements							
	Stinger Depth	MW-4	RW-1	RW-2								MW-3	MW-5							MW-3 DTP	MW-3 DTW	MW-5 DTP	MW-5 DTW				
05/29/18 - 1000	6.517.	-17	-16	-16																							
1030	17.6	-17	-16	-16																							
1100	18	-17	-16	-16																							
1130	19	-17	-16	-16								0.00	0.00							0.00	16.05	0.00	16.01				
1200	19.5	-17	-16	-16																							
1230	20	-17	-16	-16																	.						
1300	21	-17	-16	-16																							
1330	22	-17	-16	-16								0.00	0.00							0.00	16.05	0.00	16.10				
1400	22.5	-17	-16	-16																							
1430	23	-17	-16	-16																							
1500	23.5	-17	-16	-16																							
1530	24	-17	-16	-16								0.00	0.00							0.00	16.08	0.00	16.13				
1600	25	-17	-16	-16																							
1630	26	-17	-16	-16																							
1700	27	-16	-16	-16																							
1730	27	-16	-16	-16								0.00	0.00							0.00	16.08	0.00	16.18				
1830	27	-16	-16	-16																							
1930	18	-16	-15	-16								0.00	0.00							0.00	16.13	0.00	16.25				
2030	18	-16	-15	-16																							
2130	18	-16	-15	-16								0.00	0.00							0.00	16.15	0.00	16.31				
2230	18	-16	-15	-16																							
2330	18	-16	-15	-16								0.00	0.00							0.00	16.15	0.00	16.43				
2400	18	-16	-15	-16																							
05/30/18 - 0800	18	-16	-15	-16								0.00	0.00							0.00	16.27	0.00	16.88				
0900	18	-16	-15	-16																							
1000	18	-16	-15	-16								0.00	0.00							0.00	16.27	0.00	16.90				
1200	18	-16	-15	-16								0.00	0.00							0.00	16.28	0.00	16.95				
1400	18	-16	-15	-16								0.00	0.00							0.00	16.28	0.00	17.06				
1600	18	-16	-15	-16								0.00	0.00							0.00	16.29	0.00	17.06				
1800	18	-16	-15	-16								0.00	0.00							0.00	16.29	0.00	17.06				
2000	18	-16	-15	-16								0.00	0.00							0.00	16.31	0.00	17.08				
2200	18	-16	-15	-16								0.00	0.00							0.00	16.31	0.00	17.08				

AFVR Field Data Sheet

Client: Blue Ridge Environmental	Site: Citgo-Rhodes Station, 410 Spartanburg Highway, Wellford, SC	5/29/18 - 6/2/19	Job # 1805-0281
Technician:	MMPE Operator: Terry Green		

Time (hh:mm)		Extraction Well-head Vacuum (in Hg)									Influence On Surrounding Wells Vacuum (in water)								Adjacent Well Water Level Measurements							
Event Start 0930	Stinger Depth	MW-4	RW-1	RW-2							MW-3	MW-5							MW-3 DTP	MW-3 DTW	MW-5 DTP	MW-5 DTW				
2400	18	-16	-15	-16							0.00	0.00							0.00	16.34	0.00	17.08				
05/31/18 - 0800	18	-17	16	-16							0.00	0.00							0.00	16.35	0.00	16.80				
1000	18	-17	16	-16							0.00	0.00							0.00	16.35	0.00	16.80				
1200	18	-17	16	-16							0.00	0.00							0.00	16.37	0.00	16.80				
1400	18	-17	16	-16							0.00	0.00							0.00	16.37	0.00	16.77				
1600	18	-17	16	-16							0.00	0.00							0.00	16.36	0.00	16.77				
1800	18	-17	16	-16							0.00	0.00							0.00	16.24	0.00	16.78				
2000	21	-17	16	-16							0.00	0.00							0.00	16.24	0.00	16.78				
2200	21	-17	16	-16							0.00	0.00							0.00	16.24	0.00	16.78				
2400	21	-17	16	-16							0.00	0.00							0.00	16.24	0.00	16.78				
06/01/18 - 0800	21	-17	-15	-16							0.00	0.00							0.00	16.26	0.00	16.86				
1000	21	-17	-15	-16							0.00	0.00							0.00	16.26	0.00	16.86				
1200	21	-17	-15	-16							0.00	0.00							0.00	16.28	0.00	16.87				
1400	21	-17	-15	-16							0.00	0.00							0.00	16.28	0.00	16.88				
1600	21	-17	-15	-16							0.00	0.00							0.00	16.34	0.00	16.88				
1800	21	-16	-15	-15							0.00	0.00							0.00	16.34	0.00	16.89				
2000	21	-16	-15	-15							0.00	0.00							0.00	16.33	0.00	16.89				
2200	21	-16	-15	-15							0.00	0.00							0.00	16.33	0.00	16.89				
2400	21	-16	-15	-15							0.00	0.00							0.00	16.34	0.00	16.90				
06/02/18 - 0800	18	-16	-15	-15							0.00	0.00							0.00	16.34	0.00	16.94				
1000	18	-16	-15	-15							0.00	0.00							0.00	16.34	0.00	16.94				

Extraction Wells	MW-4	RW-1	RW-2	MW-3	MW-5	MW-	MW-	MW-	Weather:
Depth Below Top of Casing (ft)	16.18	16.17	15.81	16.02	15.94				Depth to groundwater pre-AFVR/EFR
	18.53	17.60	17.57	16.35	16.94				Depth to groundwater post-AFVR/EFR
	16.06	16.15	15.79	0.00	0.00				Depth to free product pre-AFVR/EFR
	0.00	0.00	0.00	0.00	0.00				Depth to free product post-AFVR/EFR

APPENDIX F

AFVR Data Sheet - Emissions Data & Calculation

Client: Blue Ridge Environmental		Site: Citgo-Rhodes Station, 410 Spartanburg Highway, Wellford, SC										5/29/18 - 6/2/18		Job# 1805-0281	
		Meters: MiniRae 3000 PID, RH pen										Response Factor: 1		Stack Dia(in): 4	
Time (h:m)	Delta Time (min)	Pre PPMmea (PPMv)	Post PPMmea (PPMv)	Temp (^{0} F)	RH (%)	Flow (acfm)	Specific Humidity (lbW / lbDA)	Water Vapor (vol %)	Flow Qstd (dscfm)	Dry Conc (PPMv)	Response Factor	Corrected Conc (PPMv)	Mass Conc (mg/m^3)	Mass Conc (lb/ft^3)	Mass Removed (lb)
05/29/18 - 1000	30	4112.0	0.0	300	5.6	70	0.100	0.138	42	4770	1	4770	25368	0.001584	2.00
1030	30	4236.0	0.0	300	5.0	70	0.100	0.138	42	4915	1	4915	26136	0.001632	2.06
1100	30	4410.0	0.0	310	5.1	70	0.100	0.138	42	5117	1	5117	27209	0.001699	2.12
1130	30	4391.0	0.0	310	4.3	70	0.100	0.138	42	5095	1	5095	27092	0.001691	2.11
1200	30	4416.0	0.0	320	4.7	70	0.100	0.138	41	5124	1	5124	27246	0.001701	2.09
1230	30	4212.0	0.0	325	4.9	70	0.100	0.138	41	4887	1	4887	25987	0.001622	1.98
1300	30	4365.0	0.0	325	4.0	70	0.100	0.138	41	5064	1	5064	26931	0.001681	2.05
1330	30	3113.0	0.0	325	3.5	70	0.100	0.138	41	3612	1	3612	19207	0.001199	1.47
1400	30	3261.0	0.0	315	3.0	70	0.100	0.138	41	3783	1	3783	20120	0.001256	1.55
1430	30	3312.0	0.0	315	3.0	70	0.100	0.138	41	3843	1	3843	20435	0.001276	1.58
1500	30	3009.0	0.0	320	3.3	70	0.100	0.138	41	3491	1	3491	18565	0.001159	1.43
1530	30	3111.0	0.0	320	3.7	70	0.100	0.138	41	3609	1	3609	19194	0.001198	1.47
1600	30	2641.0	0.0	325	2.9	70	0.100	0.138	41	3064	1	3064	16295	0.001017	1.24
1630	30	2582.0	0.0	325	3.0	70	0.100	0.138	41	2996	1	2996	15931	0.000995	1.22
1700	30	2413.0	0.0	325	3.8	70	0.100	0.138	41	2800	1	2800	14888	0.000929	1.14
1730	30	1812.0	0.0	325	3.4	70	0.100	0.138	41	2102	1	2102	11180	0.000698	0.85
1830	60	1604.0	0.0	325	3.2	70	0.100	0.138	41	1861	1	1861	9896	0.000618	1.51
1930	60	1431.0	0.0	325	3.3	70	0.100	0.138	41	1660	1	1660	8829	0.000551	1.35
2030	60	2014.0	0.0	325	3.0	70	0.100	0.138	41	2337	1	2337	12426	0.000776	1.90
2130	60	2124.0	0.0	325	3.0	70	0.100	0.138	41	2464	1	2464	13105	0.000818	2.00
2230	60	1996.0	0.0	325	3.7	70	0.100	0.138	41	2316	1	2316	12315	0.000769	1.88
2330	60	2052.0	0.0	325	3.1	70	0.100	0.138	41	2381	1	2381	12661	0.000790	1.93
2400	30	2069.0	0.0	325	3.5	70	0.100	0.138	41	2400	1	2400	12765	0.000797	0.97
05/30/18 - 0800	480	1829.0	0.0	315	2.9	70	0.100	0.138	41	2122	1	2122	11285	0.000705	13.95
0900	60	1951.0	0.0	315	2.5	70	0.100	0.138	41	2264	1	2264	12037	0.000751	1.86
1000	60	1726.0	0.0	325	3.0	70	0.100	0.138	41	2003	1	2003	10649	0.000665	1.62
1200	120	1340.0	0.0	325	2.7	70	0.100	0.138	41	1555	1	1555	8268	0.000516	2.52
1400	120	1242.0	0.0	325	2.5	70	0.100	0.138	41	1441	1	1441	7663	0.000478	2.34
1600	120	1362.0	0.0	325	2.0	70	0.100	0.138	41	1580	1	1580	8403	0.000525	2.56
1800	120	1413.0	0.0	325	2.3	70	0.100	0.138	41	1639	1	1639	8718	0.000544	2.66
2000	120	1394.0	0.0	325	2.7	70	0.100	0.138	41	1617	1	1617	8601	0.000537	2.62
2200	120	1321.0	0.0	325	2.6	70	0.100	0.138	41	1533	1	1533	8150	0.000509	2.49

AFVR Data Sheet - Emissions Data & Calculation

Client: Blue Ridge Environmental	Site: Citgo-Rhodes Station, 410 Spartanburg Highway, Wellford, SC	5/29/18 - 6/2/18	Job# 1805-0281
	Meters: MiniRae 3000 PID, RH pen	Response Factor: 1	Stack Dia(in): 4

Time (h:m)	Delta Time (min)	Pre PPMmea (PPMv)	Post PPMmea (PPMv)	Temp (^{0} F)	RH (%)	Flow (acfm)	Specific Humidity (lbW / lbDA)	Water Vapor (vol %)	Flow Qstd (dscfm)	Dry Conc (PPMv)	Response Factor	Corrected Conc (PPMv)	Mass Conc (mg/m^3)	Mass Conc (lb/ft^3)	Mass Removed (lb)
05/29/18 - 1000	30	4112.0	0.0	300	5.6	70	0.100	0.138	42	4770	1	4770	25368	0.001584	2.00
2400	120	1346.0	0.0	325	2.4	70	0.100	0.138	41	1562	1	1562	8305	0.000518	2.53
05/31/18 - 0800	480	1121.0	0.0	325	3.0	70	0.100	0.138	41	1301	1	1301	6916	0.000432	8.44
1000	120	1283.0	0.0	325	2.7	70	0.100	0.138	41	1489	1	1489	7916	0.000494	2.42
1200	120	1198.0	0.0	325	2.4	70	0.100	0.138	41	1390	1	1390	7391	0.000461	2.26
1400	120	1025.0	0.0	325	3.2	70	0.100	0.138	41	1189	1	1189	6324	0.000395	1.93
1600	120	1073.0	0.0	325	2.6	70	0.100	0.138	41	1245	1	1245	6620	0.000413	2.02
1800	120	1432.0	0.0	325	3.4	70	0.100	0.138	41	1661	1	1661	8835	0.000552	2.70
2000	120	1396.0	0.0	325	3.7	70	0.100	0.138	41	1620	1	1620	8613	0.000538	2.63
2200	120	1339.0	0.0	325	2.9	70	0.100	0.138	41	1554	1	1554	8261	0.000516	2.52
2400	120	1364.0	0.0	325	3.5	70	0.100	0.138	41	1583	1	1583	8416	0.000525	2.57
06/01/18 - 0800	480	1006.0	0.0	325	3.0	70	0.100	0.138	41	1167	1	1167	6207	0.000387	7.58
1000	120	1136.0	0.0	325	3.5	70	0.100	0.138	41	1318	1	1318	7009	0.000438	2.14
1200	120	1174.0	0.0	325	3.5	70	0.100	0.138	41	1362	1	1362	7243	0.000452	2.21
1400	120	1181.0	0.0	325	3.3	70	0.100	0.138	41	1370	1	1370	7287	0.000455	2.22
1600	120	1089.0	0.0	325	3.2	70	0.100	0.138	41	1263	1	1263	6719	0.000419	2.05
1800	120	1115.0	0.0	325	2.7	70	0.100	0.138	41	1294	1	1294	6879	0.000429	2.10
2000	120	1123.0	0.0	325	3.0	70	0.100	0.138	41	1303	1	1303	6929	0.000433	2.11
2200	120	1094.0	0.0	325	2.5	70	0.100	0.138	41	1269	1	1269	6750	0.000421	2.06
2400	120	1103.0	0.0	325	2.7	70	0.100	0.138	41	1280	1	1280	6805	0.000425	2.08
06/02/18 - 0800	480	1531.0	0.0	325	3.1	70	0.100	0.138	41	1776	1	1776	9446	0.000590	11.53
1000	120	1446.0	0.0	325	3.0	70	0.100	0.138	41	1678	1	1678	8922	0.000557	2.72

Total emissions, pounds	137.35
Total emissions, gallons (6.25 lb/gal)	21.98

PPMmea = Measured VOC concentration from OVA/TVA (PPMv)

Velocity = Measured velocity (fpm)

Temp = Measured temperature (^{0}F)

RH = Measured relative humidity (%)

Flow = Actual Flow Volume (cfm)

Specific Humidity = data from psychrometric chart at measured Temp and RH (lb water/lb dry air) (lbW / lbDA)

Water Vapor = % water vapor on a volume basis = (Specific Humidity / 18 lb-mole H2O) / [(1 / 28.84 lb-mole dry air) + (Specific Humidity / 18 lb-mole H2O)]

Qstd = Flow volume on a dry basis at a standard temperature of 70 ^{0} F = (1-Water Vapor) (Flow) [530 ^{0}R / (Temp +460)]

Dry Conc = PPMv VOC on a dry basis = [PPMmea / (1-Water Vapor)]

Response Factor of OVA/TVA meter; 1 if response factor is unknown

Corrected Conc = Dry Conc PPMv VOC corrected by Response Factor = (Dry Conc) (Response Factor)

Mass Conc (mg/m^{-3}) = Mass concentration VOC as gasoline dry basis at standard temperature = (Corrected Conc) (128 mg/mg-mole / 24.07 m3/mg-mole)

Mass Conc (lb/ft^3) = [Mass Conc (mg/m3)] [(6.243 * 10^{-8})(lb/ft3)/(mg/m3)]

Mass Removed (lb) = [Mass Conc (lb/ft3)] [Qstd (dscfm)] [Time Interval (min)]

APPENDIX G

1805-

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		803-957-9175	1805-0281-1

GENERATOR

5. Generator's Name and Mailing Address: A&D Environmental Services (SC), LLC, 1741 Calks Ferry Rd, Lexington, SC 29073

Generator's Site Address (if different than mailing address): Rhodes Service Station, 410 Spartanburg Highway, Wellford, SC 29385

Generator's Phone:

6. Transporter 1 Company Name: A&D ENVIRONMENTAL SERVICES (SC), LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: VLS Recovery Services, LLC, 305 South Mauldin Street, Mauldin, SC 29662 — U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous PCW Profile #23519	1	TT	~~4360~~ 4355 by weight	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
A&D Project #1805-0281

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: BILL AILINS — Signature: [signature] — Month: 5 Day: 30 Year: 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DOUG JOHNSON — Signature: [signature] — Month: 5 Day: 30 Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: [signature] — Signature: [signature] — Month: 5 Day: 30 Year: 18

TRANSPORTER #1

75947

SCALE TICKET

05/30/2018		03:53PM
Prosressive		10712
RcD I.D.		06875
Inbound weight		72560 lb

05/30/2018		04:59PM
Prosressive		10721
RcD I.D.		06875
Gross		72560 lb
Tare		36240 lb
Net		36320 lb

8.34 # 4,355 gallons

Scale Company: VLS

Weighed By: TL

Carrier: A&D

Customer: A&D

PO/BOL/Manifest 1805-0281-1

Tractor Number: 5226

Trailer Number: VH016

Driver Signature: Doug Johnson

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			803-957-9175	

GENERATOR

5. Generator's Name and Mailing Address
A&D Environmental Services (SC), LLC
1741 Calks Ferry Rd
Lexington, SC 29073

Generator's Site Address (if different than mailing address)
Rhodes Service Station
410 Spartanburg Highway
Wellford, SC 29365

Generator's Phone:

6. Transporter 1 Company Name: A&D ENVIRONMENTAL SERVICES (SC), LLC — U.S. EPA ID Number: SCD987590331

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MS Recovery Services, LLC
305 South Mauldin Street
Mauldin, SC 29662
864-962-9963

U.S. EPA ID Number: SCR000762468

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous PCW Profile #23519	1	TT	~~4800~~	G	
2.				4391 by weight	G	
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Eric Allard — Signature: [signature] — Month 6 Day 1 Year 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Th Addeus Milas — Signature: [signature] — Month 6 Day 1 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: F Chappell — Signature: [signature] — Month 6 Day 1 Year 18

GC Labels • Printed in the USA
1-800-997-5908

COPY

Reorder Par# MANIFEST-CONFMC
918-897-6966

76160

SCALE TICKET

06/01/2018 01:02PM
Progressive 10907
RcD I.D. 07489
Inbound weight 71440 lb

06/01/2018 01:46PM
Progressive 10916
RcD I.D. 07489
Gross 71440 lb
Tare 34820 lb
Net 36620 lb

8.34 = 4391 gallon

Scale Company: VCS

Weighed By: TR

Carrier: ABD

Customer: ABD

PO/BOL/Manifest

Tractor Number: D227

Trailer Number: SVT1051

Driver Signature:

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		803-957-9175	1805-0281-3

GENERATOR

5. Generator's Name and Mailing Address
A&D Environmental Services (SC), LLC
1741 Calks Ferry Rd
Lexington, SC 29073

Generator's Site Address (if different than mailing address)
Rhodes Service Station
410 Spartanburg Highway
Wellford, SC

Generator's Phone:

6. Transporter 1 Company Name: A&D ENVIRONMENTAL SERVICES (SC), LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MLS Recovery Services, LLC
305 South Mauldin Street
Mauldin, SC 29662
864-982-9953

U.S. EPA ID Number: SCR000762468

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous PCW Profile #23519	1	TT	4700	G	3405 gallons per weight
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
A&D SC #1805-0281

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 6 Day 11 Year 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Thaddeus Miles — Signature — Month 6 Day 11 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month 6 Day 11 Year 18

GC Labels • Printed in the USA
1-800-997-6966

COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

76383

SCALE TICKET

06/11/2018 10:20A
Progressive 1146
RcD I.D. 1483
Inbound weight 54860 lb

06/11/2018 11:05A
Progressive 1147
RcD I.D. 1483
Gross 54860 lb
Tare 26460 lb
Net 28400 lb

8.34 =
3405 gallons

Scale Company: VLS

Weighed By: JC

Carrier: A+D

Customer: A+D

PO/BOL/Manifest 18 USD281-3

Tractor Number: D227

Trailer Number: P1389

Driver Signature: [signature]

WHITE - Driver YELLOW - Driver CARD - Scale

.P558

CALIBRATION CHART STRAIGHT ROUND

INNAGE

** US GALLONS **

Strike bottom of man hole

COMPARTMENT LENGTH= 506.000 INCHES BARREL/CPT I.D.= 63.981 INCHES
HEAD GALLONAGE= 146. GALLONS INCREMENT= .250 INCHES

	0 FT	1 FT	2FT	3FT	4 FT	5 FT
.00	0.	927.	2458.	4169.	5792.	7005.
.25	3.	955.	2493.	4205.	5823.	7022.
.50	8.	983.	2528.	4240.	5854.	7038.
.75	15.	1011.	2563.	4276.	5884.	7054.
1.00	23.	1040.	2598.	4311.	5915.	7069.
1.25	33.	1069.	2633.	4347.	5945.	7084.
1.50	43.	1098.	2668.	4382.	5975.	7098.
1.75	54.	1127.	2703.	4417.	6005.	7111.
2.00	66.	1157.	2738.	4453.	6034.	7124.
2.25	78.	1186.	2774.	4488.	6064.	7136.
2.50	92.	1216.	2809.	4523.	6093.	7147.
2.75	106.	1246.	2845.	4558.	6122.	7157.
3.00	120.	1276.	2880.	4593.	6151.	7166.
3.25	136.	1307.	2916.	4628.	6179.	7174.
3.50	152.	1337.	2951.	4663.	6208.	7181.
3.75	168.	1368.	2987.	4698.	6236.	7186.
4.00	185.	1399.	3022.	4733.	6264.	
4.25	202.	1430.	3058.	4768.	6292.	
4.50	220.	1461.	3094.	4802.	6319.	
4.75	238.	1492.	3129.	4837.	6346.	
5.00	257.	1524.	3165.	4871.	6373.	
5.25	276.	1556.	3201.	4906.	6400.	
5.50	296.	1588.	3237.	4940.	6427.	
5.75	316.	1620.	3273.	4974.	6453.	
6.00	337.	1652.	3308.	5008.	6479.	
6.25	358.	1684.	3344.	5042.	6505.	
6.50	379.	1716.	3380.	5076.	6530.	
6.75	400.	1749.	3416.	5110.	6555.	
7.00	422.	1782.	3452.	5144.	6580.	
7.25	445.	1814.	3488.	5177.	6605.	
7.50	467.	1847.	3524.	5211.	6629.	
7.75	491.	1880.	3560.	5244.	6653.	
8.00	514.	1914.	3596.	5278.	6676.	
8.25	538.	1947.	3632.	5311.	6700.	
8.50	562.	1980.	3667.	5344.	6723.	
8.75	586.	2014.	3703.	5377.	6745.	
9.00	610.	2047.	3739.	5409.	6768.	
9.25	635.	2081.	3775.	5442.	6790.	
9.50	661.	2115.	3811.	5475.	6811.	
9.75	686.	2149.	3847.	5507.	6833.	
10.00	712.	2183.	3883.	5539.	6853.	
10.25	738.	2217.	3919.	5571.	6874.	
10.50	764.	2251.	3955.	5603.	6894.	
10.75	791.	2285.	3990.	5635.	6914.	
11.00	817.	2320.	4026.	5667.	6933.	
11.25	844.	2354.	4062.	5698.	6952.	
11.50	872.	2389.	4098.	5730.	6970.	
11.75	899.	2424.	4133.	5761.	6988.	

TOTAL COMPARTMENT VOLUME 7189. GALLONS.
THIS CHART IS BASED ON THEORETICAL DIMENSIONS.
AN ACTUAL WATER CALIBRATION MAY BE NECESSARY FOR GREATER ACCURACY.

APPENDIX H

Rhodes Service Station, UST #08562
Photo Log
410 Spartanburg Highway
Wellford, South Carolina

1. View of the two (2) newly installed Recovery wells, 08562-RW-1 & 08562-RW-2.

Rhodes Service Station, UST #08562
Photo Log
410 Spartanburg Highway
Wellford, South Carolina

2. View of newly re-done monitoring well pad and vault for 08562-MW-15.

Rhodes Service Station, UST #08562
Photo Log
410 Spartanburg Highway
Wellford, South Carolina

3. View of the inside of the newly redone well pad, vault, tag and lock for monitoring well 08562-MW-15.

APPENDIX I

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
SC Contractor # 0095
BRESI@BlueRidge-ESI.com

Rhodes Service Station (Former)
UST Permit Number: 08562

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

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
SC Contractor # 0095
BRESI@BlueRidge-ESI.com

Rhodes Service Station (Former)
UST Permit Number: 08562

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		

Explanation for missing and incomplete information?

dhec
Healthy People. Healthy Communities.

AUG 2 8 2018

UST 23 DOCKETING

ODOM OIL COMPANY
PO BOX 1291
SPARTANBURG SC 29304-1291

Re: **QAPP Contractor Addendum/SSWP Directive for GWS**
Rhodes Services Station, 410 Spartanburg Hwy. S., Wellford, SC
UST Permit # 08562
Release reported January 24, 1990
AFVR Report received July 10, 2018
Spartanburg County

To Whom It May Concern:

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 Blue Ridge Environmental Services, Inc. The report documents petroleum chemicals in the soil and 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 groundwater sampling is necessary. The groundwater sampling 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/ReleaseAssessmentClean-up/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 ft radius of the site and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, and EDB.

Your contractor must complete the Site-Specific QAPP Contractor addendum (QAPPA) or the Site-Specific Work Plan (SSWP) if your contractor has an approved Annual Contractor Quality Assurance Plan (ACQAP). The QAPPA or 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.**

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

On all correspondence regarding this site, please reference UST Permit # 08562. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0655, fax me at (803) 898-0673, or e-mail me at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Blue Ridge Environmental Services, Inc., 2315 Kings Rd. Ext., Shelby, NC 28512-6233
Technical File

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

UST PROGRAM OCT 01 2018

UST DOCKETING 24 Week

To: Quincy Hoffer (SCDHEC Project Manager)
From: Ken Pimienta (Contractor Project Manager)
Contractor: Blue Ridge Env. Serv., Inc. UST Contractor Certification Number: 0095

Facility Name: Rhodes Service Station (Former) UST Permit #: 08562
Facility Address: 410 Spartanburg Highway South, Welford, SC 29365
Responsible Party: Odom Oil Company (Mr. Robert Turner) Phone:
RP Address: P.O. Box 1291, Spartanburg, SC 29304-1291
Property Owner (if different):
Property Owner Address:
Current Use of Property: Active Convenience Store / Gas Station/ Subway Restaurant

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

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

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ 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	____ Water Supply Wells	____ Air	2 Field Blank
25 Monitoring Wells	____ Surface Water	2 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: N/A Estimated Footage: N/A feet per point
# of deep wells: N/A Estimated Footage: N/A feet per point
# of recovery wells: N/A Estimated Footage: N/A feet per point
Comments, if warranted:

UST Permit #: 08562 Facility Name: Rhodes Service Station (Former)

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 30 Days Field Work Completion: 60 Days

Report Submittal: 90 Days # 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: N/A Tons Purge Water: 100 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

Purge groundwater samples will be collected from wells 08562-MW-1 through 08562-MW-8, 08562-MW-9R, 08562-MW-5 through 08562-MW-13, 08562-MW-14R, 08562-MW-15 through 08562-MW-19, 08562-MW-21 through 08562-MW-24, 08562-RW-1, 08562-RW-2 and 08562-VMW-1. Please note that if during the sampling event wells 08562-MW-4, 08562-RW-1 and 08562-RW-2 contain FPP, the FPP will be gauged and no sample will be obtained from these locations.

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: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

N/A 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
Healthy People. Healthy Communities.

ASSESSMENT COMPONENT INVOICE
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: Rhodes Service Station

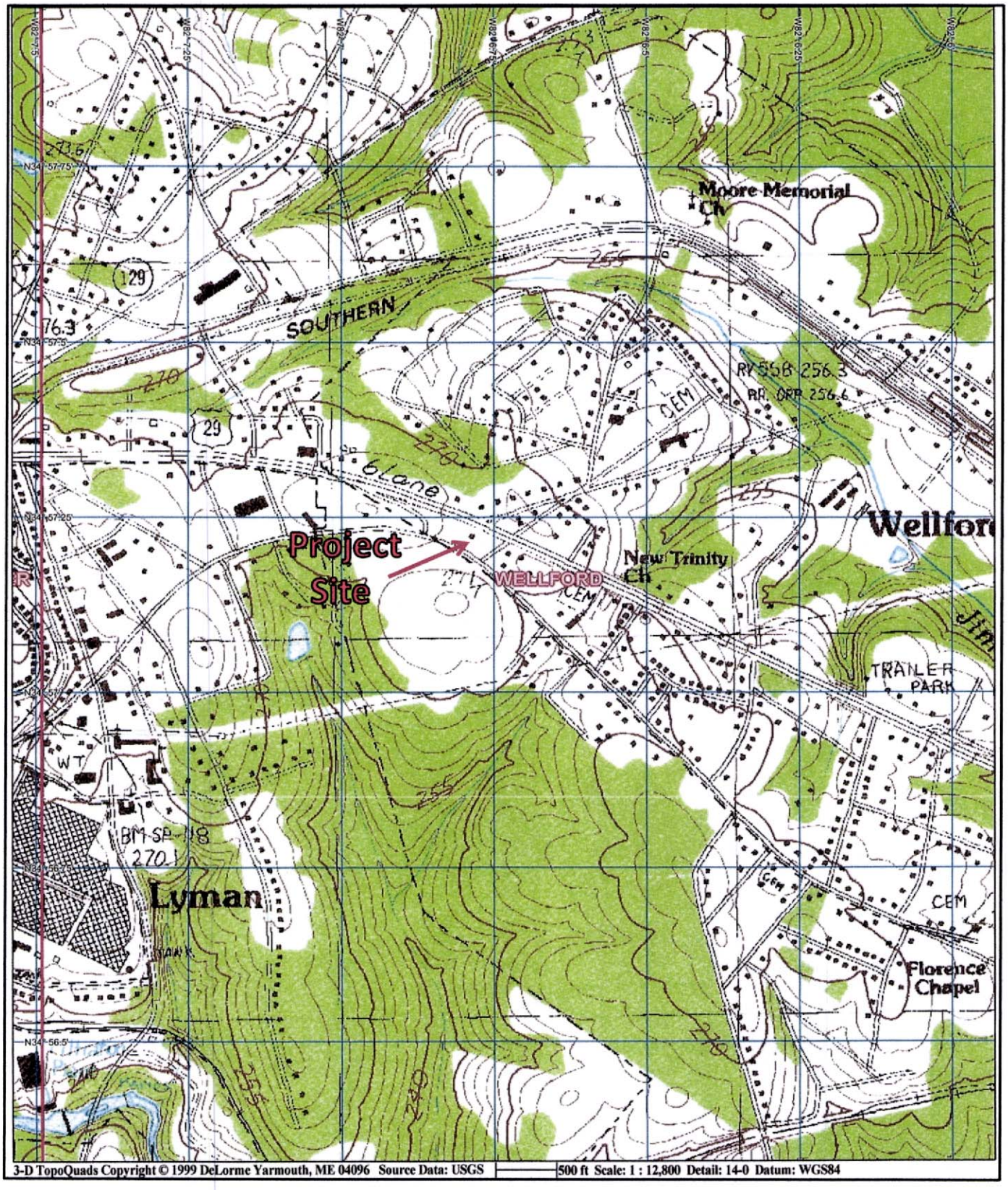
UST Permit #: 08562 **Cost Agreement #:** _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
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
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
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
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	3	each	$423.00	$1,269.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
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
9. **Well Installation (per foot)***				
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
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	25	per well/receptor	$60.00	$1,500.00
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 Duplicat	2	per well/receptor	$28.00	$56.00
E1. Gauge Well only	3	per well	$7.00	$21.00
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
I. Groundwater (low flow purge)		per well/receptc	$91.00	$0.00

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	30	per sample	$122.00	$3,660.00
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	29	per sample	$45.20	$1,310.80
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
11. Analyses-Drinking Water				
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
11. **Analyses-Soil**				
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
11. **Analyses-Air**				
Y1. BTEX + Naphthalene		per sample	$216.00	$0.00
11. **Analyses-Free Phase Product**				
Z1. Hydrocarbon Fuel Identification		per sample	$357.00	$0.00
12. **Aquifer Characterization**				
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
13. A1. **Free Product Recovery Rate Test***		each	$38.00	$0.00
14. **Fate/Transport Modeling**				
A1. Mathematical Model		each	$100.00	$0.00
B1. Computer Model		each	$100.00	$0.00
15. **Risk Evaluation**				
A. Tier I Risk Evaluation		each	$300.00	$0.00
B1. Tier II Risk Evaluation		each	$100.00	$0.00
16. A1. **Subsequent Survey***		each	$260.00	$0.00
17. **Disposal (gallons or tons)***				
AA. Wastewater	100	gallon	$0.56	$56.00
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
18. **Miscellaneous (attach receipts)**				
		each	$0.00	$0.00
		each	$0.00	$0.00
		each	$0.00	$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard		$0.00
21. **IGWA (Use DHEC 3666 form)**		standard		$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid		$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**				
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
24. **Granulated Activated Carbon (GAC) filter system installation & service:**				
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
25. **Well Repair**				
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
I1. 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
Report Prep & Project Coordination	12%	percent	$8,072.00	$968.64
TOTAL				$9,040.64

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC



TOPOGRAPHIC MAP

0 1,111 ft.

North ▲

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor: # 0095

Client:	Robert F. Turner
Project:	Rhodes Service Station (Former)
Location:	410 Spartanburg Highway South
	Lyman, South Carolina 29365
Blue Ridge Project #:	17-6023.3
Date: 9/26/18	Approximate Scale: 1" = 1,111' — Figure 1

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
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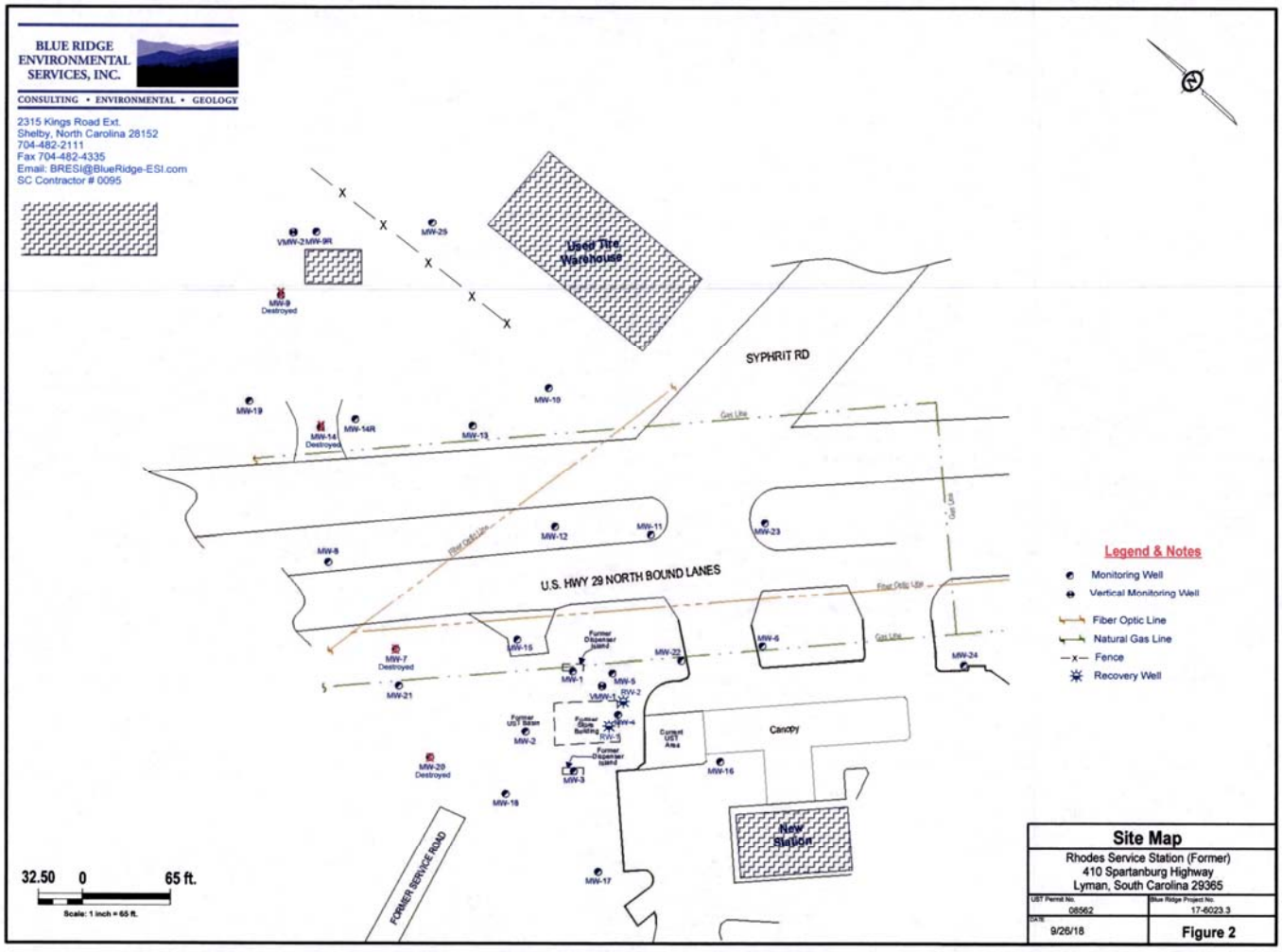

Site Map

Rhodes Service Station (Former)
410 Spartanburg Highway
Lyman, South Carolina 29365

UST Permit No.	Blue Ridge Project No.
08562	17-6023.3
DATE: 9/26/18	Figure 2

dhec
Healthy People. Healthy Communities.

OCT 16 2018

ODOM OIL COMPANY
PO BOX 1291
SPARTANBURG SC 29304-1291

Re: **Groundwater Sampling Directive**
Rhodes Service Station, 410 Spartanburg Hwy. S., Wellford SC
UST Permit # 08562; CA # 58131
Release Reported January 24, 1990
Site-Specific Work Plan and cost proposal received October 1, 2018
Spartanburg County

To Whom It May Concern:

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 Blue Ridge Environmental Services, Incorporated. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Blue Ridge Environmental Services'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 UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The groundwater sampling event should begin immediately upon receipt of this letter. Cost agreement #58131 has been approved for the amount shown on the enclosed cost agreement form. Please note the following changes to the cost agreement and SSWP:

- Item 10 E1 – 3 gauge well only samples have been removed from the cost agreement.

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 Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) 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.

Blue Ridge Environmental 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. 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 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 and 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 #08562. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0655, fax me at (803) 898-0673, or e-mail me at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Blue Ridge Environmental Services Inc., 2315 Kings Rd. Ext.., Shelby, NC 28152-6233 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement 58131

Facility: 08562 RHODES SERVICE STATION
HOFFERQM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB					
		B1 PERSONNEL	3.0000	$423.000	1,269.00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	25.0000	$60.000	1,500.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	2.0000	$28.000	56.00
		H1 FIELD BLANK	2.0000	$24.600	49.20
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	30.0000	$122.000	3,660.00
		F1 EDB BY 8011	29.0000	$45.200	1,310.80
17 DISPOSAL					
		AA WASTEWATER	100.0000	$0.560	56.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$8,051.000	966.12
			Total Amount		9,017.12

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 12-31-2018

Permit Number 08562

Project Manager Quincy Hoffer

Name of Contractor Blue Ridge Env Services Inc

UST Certification Number Groundwater Monitoring Report

Docket Number 24Tech

Scanned _____

Groundwater Monitoring Report

UST Permit No. 08562
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
Blue Ridge Project No. 17-6023.3

Prepared for:
Odom Oil Company
Mr. Robert F. Turner
655 Perrin Drive
Spartanburg, South Carolina 29307

December 27, 2018

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CONSULTING • ENVIRONMENTAL • GEOLOGY

Prepared by:
Blue Ridge Environmental Services, Inc.
2315 Kings Rd. Extension
Shelby, North Carolina 28152
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BRESI@BlueRidge-ESI.com
SC Contractor: 0095

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Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095

December 27, 2018

Mr. Quincy Hoffer
South Carolina Department of Health & Environmental Control
Corrective Action and Quality Assurance Section
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

Subject: **Groundwater Monitoring Report**
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Dear Mr. Hoffer:

Blue Ridge Environmental Services, Inc. (Blue Ridge) is pleased to present the results of the groundwater sampling activities performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 58131 per correspondence from your office dated October 16, 2018. The location of the monitoring wells is illustrated on Figure 2.

Introduction

1. UST Facility Name: Rhodes Service Station (Former)
   UST Permit Number: 08562
   Address: 410 Spartanburg Highway, Wellford, South Carolina 29365
   Phone Number: (864) 949-6800

2. UST Owner: Odom Oil Company
   Address: 655 Perrin Drive, Spartanburg, South Carolina 29307
   Phone Number: (864) 706-5182

3. UST Operator: N/A
   Address: N/A
   Phone Number: N/A

4. Responsible Party: Odom Oil Company
   Address: 655 Perrin Drive, Spartanburg, South Carolina 29307
   Phone Number: (864) 706-5182

5. Property Owner Name: Service Oil Company
   Address: P.O. Box 3255, Spartanburg, South Carolina 29304
   Phone Number: (864) 583-3688

6. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.
   Address: 2315 Kings Road Extension, Shelby, North Carolina 28152
   Phone Number: (704) 482-2111
   SCDHEC Certified Contractor Number: 0095

7. SCDHEC Certified Laboratory: Shealy Environmental Services, Inc.
   Address: 106 Vantage Point Drive, West Columbia, South Carolina 29172
   Phone Number: (803) 791-9700
   SCDHEC Certified Laboratory Certification Number: 32010

Facility History

The Former Rhodes Service Station (Site) is in Spartanburg County, South Carolina, located at 410 Spartanburg Highway. The Site is located in an area of mixed commercial property within the city limits of Wellford. The location of the Site and surrounding topography is shown on Figure 1. The original Site building and service station was decommissioned and removed at an unknown date. The Site currently consists of a vacant vegetated lot and convenience store/gasoline service station (Citgo) operating adjacent to the original Site location.

According to the South Carolina Department of Health and Environmental Control (SCDHEC), two (2) 4,000-gallon and two (2) 2,000-gallon single walled steel gasoline Underground Storage Tanks (USTs) were previously located at the Site and were reportedly removed on November 11, 1911. The actual installation dates for USTs #1 through #4 at the Site are unknown and the location and orientation of the former UST system components are unknown. A release was reported to SCDHEC on January 24, 1990. The release was caused by a leaking UST system with an unknown quantity of product released. The former UST system is described in detail on the table titled Former USTs Located Onsite.

Former UST's Located On-site

UST #	Product	Date Installed (Year)	Currently in use (Yes or No)	Tank Size	If not in use, Date Removed	Removed (Yes or No)
1	Gasoline	Unknown	No	2,000	11/11/1911[1]	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes
4	Gasoline	Unknown	No	4,000	11/11/1911	Yes

[1] UST system was removed on an unknown date that is reported as November 11, 1911 by the SCDHEC UST Registry

A Tier I was conducted at the Site by Blue Ridge in 2000. A Tier II "Additional Assessment" to horizontally and vertically define the plume was completed in 2009. Groundwater monitoring events and Aggressive Fluid Vapor and Recovery (AFVR) events have occurred variously by Blue Ridge since 2009. Two (2) 4-inch recovery wells (08562-RW-1 & 08562-RW-2) were installed in the vicinity of monitoring well, 08562-MW-4, which has historically displayed Free Phase Product (FPP), in April 2018.

Regional Geology and Hydrogeology

The site is in the Inner Piedmont within the Piedmont Physiographic Province. The Inner Piedmont Belt is characterized by upper amphibolite facies granite gneiss, mica schist, migmatites, and granotoid rocks with low to moderately dipping recumbent folds. The igneous and metamorphic rocks are weathered to saprolite and near the surface to residual soil. Depths and thicknesses of soil and saprolite vary widely, from less than one to hundreds of feet thick; generally, it is thin on ridges and thicker on slopes and broad uplands.

The Piedmont groundwater system is a two-part system consisting of regolith, composed of a granular layer of soil and saprolite and thin, discontinuous alluvial deposits, overlying fractured, crystalline bedrock. Hydraulically, the regolith functions as the reservoir of the system and the bedrock fractures as pipelines that transmit water from the regolith to natural discharge areas. In detail, the regolith consists of a porous and permeable soil zone that grades downward into saprolite, which in turn, grades into unweathered rock. In saprolite, water flows through interstitial pore space while in unweathered rocks, flow is via fractures. Groundwater in the Piedmont occurs in a shallow saturated zone in saprolite and more commonly in a much thicker bedrock "aquifer". Saturated saprolite is hydraulically connected in most areas to the underlying bedrock.

Groundwater Data

Prior to purging and sampling the monitoring wells, the static water levels were recorded and are included in Table 1 – Groundwater Elevation Data. Blue Ridge's field staff removed groundwater from each monitoring well for purging using a new polyethylene bailer, suspended by nylon line. The well casing volume was calculated, and groundwater was purged from the wells until field measurements of pH, specific conductivity, temperature and turbidity stabilized within 10 percent or was less than or equal to 10 Nephelometric Turbidity Units (NTUs), or the well was bailed dry. Groundwater parameters were collected using a Horiba-U52 Water Quality Meter, with calibrations occurring pre-use, midday, and/or as necessary. Field Data Information Sheets depicting the groundwater parameters for each monitoring well sampled is included as Appendix A and a Waste Water Disposal Manifest is included as Appendix C.

Prior to sampling each monitoring well, Blue Ridge staff used new nitrile gloves to avoid sample contamination and cross-contamination and used laboratory provided sample containers labeled with sample name, sample ID, site name, required lab analyses, preservative, sampler initials, date and time of sample collection. Plastic sheeting was placed around the perimeter of the monitoring well being sampled and a bailer was slowly lowered into the water table, allowed to fill and then slowly extracted from the well. The groundwater samples were placed in the laboratory-provided and approved sample jars; sealed; logged onto a chain-of-custody form; then placed on ice in a cooler for storage.

A field blank was prepared for each day of the site's groundwater sampling event. The field blank was provided by the laboratory and was prepared using de-ionized (DI) water in an approved sample jar. The field blank jar lid was opened at the time of the groundwater sampling event to duplicate field environmental conditions. A trip blank was used at the site. The trip blank was provided by the laboratory using DI water in an approved sample jar and remained sealed throughout the round-trip journey to the site and back to the laboratory.

On November 16, 2018, the depth to groundwater measurements obtained from the monitoring wells varied from 13.76 feet below grade level (bgl) in 08562-MW-23 to 18.94 feet bgl in 08562-MW-19. A groundwater potentiometric map depicting shallow aquifer flow is enclosed as Figure 3. Relative groundwater elevation data and well screen interval data are presented in Table 1 – Groundwater Elevation Data. Based on the groundwater elevation data obtained and local topography, the shallow groundwater flow is predominately towards the north. Please note that apparent groundwater mounding within the vicinity of 08562-MW-1 may be due to the porous vegetative ground cover attributing to an increase in local recharge in the saturated zone of the unconfined shallow aquifer in this area. The depth to groundwater during the November 2018 sampling event was approximately 1 to 1.5 feet higher compared to the most recent August 2017

groundwater sampling event.

On November 16 & 19, 2018 groundwater samples were collected from monitoring wells 08562-MW-1, 08562-MW-3, 08562-MW-5, 08562-MW-6, 08562-MW-8, 08562-MW-9R, 08562-MW-11, 08562-MW-12, 08562-MW-14R through 08562-MW-19, 08562-MW-21 through 08562-MW-25, recovery well 08562-RW-1 and vertical monitoring well 08562-VMW-1. In addition, duplicate samples were collected from monitoring wells 08562-MW-1 and 08562-MW-22. The groundwater samples were submitted for laboratory analysis of the volatile organic compounds (VOCs) Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Methyl tertiary butyl ether (MTBE), Naphthalene, 1,2-dichloroethane (1,2-DCA) and Eight Oxygenates by EPA Method 8260 and 1,2-Dibromoethane (EDB) by EPA Method 8011. A Groundwater Chemicals of Concern (COC) Map depicting the groundwater contaminant concentration levels from the November 16 & 19, 2018 sampling event at site specific locations is included as Figure 4. Please note 08562-MW-4 (0.01') and 08562-RW-2 (0.02') were not sampled due to the presence of FPP. Monitoring wells 08562-MW-2, 08562-MW-10, 08562-MW-13 and 08562-VMW-2 were unable to be located during this assessment. Blue Ridge personnel made an effort to locate the wells with a metal detector, but where unsuccessful in finding them, therefore no samples were collected. No samples were collected from monitoring wells 08562-MW-7 and 08562-MW-20 due to the wells having been destroyed during previous construction activities. It was noted that monitoring wells 08562-MW-11 and 08562-MW-12, located in the median of the road, were observed to have their manhole screw lids and their well expandable caps missing when located, please refer to the contractor's checklist for pictures.

Results and Discussion

Groundwater analytical results indicated that of the nineteen (19) monitoring wells sampled, one (1) vertical monitoring well sampled and one (1) recovery well sampled; six (6) samples, 08562-MW-1, 08562-MW-3, 08562-MW-5, 08562-MW-12, 08562-MW-15 and 08562-RW-1 revealed detectable concentrations of several VOC's and Oxygenates above Risk-Based Screening Levels (RBSLs) and/or Action Levels (ALs) for one or more constituents. Detectable COCs were reported in the groundwater samples collected from monitoring well 08562-MW-8 and vertical monitoring well 08562-VMW-1, however, the concentrations were below the RBSLs and/or ALs. The duplicate samples collected from 08562-MW-1 and 08562-MW-22 reported similar concentrations as the original samples obtained.

Monitoring well 08562-MW-4 has historically displayed FPP during various groundwater sampling events, as well as 08562-MW-15. The two (2) new recovery wells (08562-RW-1 & 08562-RW-2) displayed FPP prior to the 96-Hour AFVR Event conducted at the site

in May 2018, however, no FPP was observed during the November 16 & 19, 2018 sampling event in 08562-RW-1 and very little in 08562-MW-4 (0.01') and 08562-RW-2 (0.02').

Monitoring wells 08562-MW-1, 08562-MW-4, 08562-MW-5 and 08562-MW-15 located on-site in the vicinity of the UST system and suspected release location, exhibited a decreasing trend of COC's when compared to the most recent groundwater sampling events prior to the AFVR events in May 2018. Monitoring well 08562-MW-3 COC concentrations increased slightly.

Off-site monitoring well 08562-MW-12 located hydraulically downgradient to the northeast in the median of U.S. Highway 29 displayed low detections of several VOC's and oxygenates below the RBSLs and ALs. However, detections of Benzene and 1,2-DCA were revealed to be above the RBSL and AL, which have not been detected since 2009.

Please refer to Table 2 - Summary of Groundwater Analytical Data and Table 3 - Summary of Groundwater Oxygenate Data for current and historical analytical data. A groundwater COC map is enclosed as Figure 4 and depicts the groundwater contaminant concentration levels from the November 16 & 19, 2018 sampling event at site specific locations. For a complete list of laboratory results, analytical methods, sample collection times and the dates sampled, refer to Appendix B - Laboratory Analytical Results and Chain of Custody Records. The Contractor Checklist is included as Appendix D.

Based on the results of the November 16 & 19, 2018 groundwater sampling event, the AFVR remediation events appear to be effective in reducing COC concentrations in event wells; however, significantly elevated groundwater COC's remain in on-site monitoring wells 08562-MW-1, 08562-MW-3, 08562-MW-5, 08562-MW-15 and recovery well 08562-RW-1; as well as FPP remaining in 08562-MW-4 and 08562-RW-2. Therefore, due to the demonstration that the AFVR remediation technology appears to be effective, Blue Ridge recommends conducting additional separate 96-Hour AFVR events on 08562-MW-1, 08562-MW-5 and 08562-MW-15 and on 08562-MW-3, 08562-MW-4, 08562-RW-1 and 08562-RW-2 to further reduce FPP, contaminant concentration levels and plume migration.

Furthermore, Blue Ridge recommends a replacement monitoring well in the vicinity of 08562-MW-10 and 08562-MW-13 due to VOC detections in hydraulically downgradient off-site monitoring well 08562-MW-12 to monitor possible plume migration.

If you have any questions or need any additional information regarding this matter, please do not hesitate to contact us at (704) 482-2111.

Respectfully submitted,
Blue Ridge Environmental Services, Inc.

Jeffrey R. White
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Enclosures

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Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-1	1/21/00	100.00	15-25	N/A	N/A	17.91	82.09
	4/23/01			N/A	N/A	17.49	82.51
	11/20/01			N/A	N/A	19.41	80.59
	6/20/02			N/A	N/A	18.12	81.88
	10/28/09			N/A	N/A	18.03	81.97
	2/18/10			NR			
	10/29/15			N/A	N/A	15.89	84.11
	8/16/17			N/A	N/A	16.29	83.71
	11/16/18			N/A	N/A	14.87	85.13
08562-MW-2	1/21/00	99.04	15-25	N/A	N/A	18.02	81.02
	4/23/01			N/A	N/A	17.92	81.12
	11/20/01			N/A	N/A	20.03	79.01
	6/20/02			N/A	N/A	18.82	80.22
	9/15/09			N/A	N/A	18.85	80.19
	2/18/10			N/A	N/A	NR	NR
	10/29/15			Not Located			
	8/16/17			Not Located			
	11/16/18			Not Located			
08562-MW-3	1/21/00	99.57	15-25	N/A	N/A	17.45	82.12
	4/23/01			N/A	N/A	18.16	81.41
	11/20/01			N/A	N/A	19.77	79.80
	6/20/02			N/A	N/A	18.09	81.48
	10/28/09			N/A	N/A	18.11	81.46
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	16.47	83.10
	11/16/18			N/A	N/A	14.96	84.61

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-4	4/23/01	98.65	10-30	FPP			
	11/20/01			FPP			
	6/20/02			FPP			
	9/15/09			18.45	0.18	18.63	80.17*
	2/18/10			NR			
	10/29/15			16.21	0.60	16.81	82.35*
	8/16/17			16.71	0.29	17.00	82.35*
	5/29/18			*16.06*	*0.12*	*16.18*	*82.57 **
	11/16/18			15.31	0.01	15.32	83.34 *
08562-MW-5	4/23/01	97.85	10-30	N/A	N/A	17.20	80.65
	11/20/01			N/A	N/A	19.12	78.73
	6/20/02			N/A	N/A	17.84	80.01
	9/15/09			N/A	N/A	17.64	80.21
	2/18/10			NR			
	10/29/15			N/A	N/A	15.61	82.24
	8/16/17			N/A	N/A	16.05	81.80
	11/16/18			N/A	N/A	14.62	83.23
08562-MW-6	4/23/01	97.87	10-30	N/A	N/A	16.93	80.94
	11/20/01			N/A	N/A	18.82	79.05
	6/20/02			N/A	N/A	17.59	80.28
	9/15/09			N/A	N/A	17.22	80.65
	2/18/10			NR			
	10/29/15			N/A	N/A	15.69	82.18
	8/16/17			N/A	N/A	15.71	82.16
	11/16/18			N/A	N/A	14.45	83.42
08562-MW-7	4/23/01	97.26	10-30	N/A	N/A	17.86	79.40
	11/20/01			N/A	N/A	19.50	77.76
	6/20/02			N/A	N/A	18.18	79.08
	9/15/09			Destroyed			
	2/18/10			Destroyed			
	10/29/15			Destroyed			
	8/16/17			Destroyed			

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
	11/16/18			Destroyed			

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-8	4/23/01	99.33	10-30	N/A	N/A	20.92	78.41
	11/20/01			N/A	N/A	22.10	77.23
	6/20/02			N/A	N/A	19.72	79.61
	9/15/09			N/A	N/A	20.58	78.75
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	18.79	80.54
	11/16/18			N/A	N/A	17.28	82.05
08652-MW-9	4/23/01	98.70	10-30	N/A	N/A	20.46	78.24
	11/20/01			Not Located			
	6/20/02			N/A	N/A	21.69	77.01
	9/15/09			Not Located			
	2/18/10			Destroyed			
08652-MW-9R	2/18/10	98.43	10-30	N/A	N/A	16.72	81.71
	10/29/15			N/A	N/A	19.13	79.30
	8/16/17			N/A	N/A	19.59	78.84
	11/16/18			N/A	N/A	17.91	80.52
08652-MW-10	4/23/01	98.71	10-30	N/A	N/A	19.04	79.67
	11/20/01			N/A	N/A	21.03	77.68
	6/20/02			N/A	N/A	19.68	79.03
	9/15/09			N/A	N/A	19.55	79.16
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			Not Located			
	11/16/18			Not Located			

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08562-MW-11	4/23/01	98.49	7-27	N/A	N/A	18.39	80.10
	11/20/01			N/A	N/A	19.98	78.51
	6/20/02			N/A	N/A	18.70	79.79
	9/15/09			N/A	N/A	18.50	79.99
	2/18/10			NR			
	10/29/15			N/A	N/A	16.94	81.55
	8/16/17			N/A	N/A	17.08	81.41
	11/16/18			N/A	N/A	15.55	82.94
08652-MW-12	4/23/01	97.75	10-30	N/A	N/A	18.21	79.54
	11/20/01			N/A	N/A	19.47	78.28
	6/20/02			N/A	N/A	18.19	79.56
	9/15/09			N/A	N/A	18.01	79.74
	2/18/10			NR			
	10/29/15			N/A	N/A	16.34	81.41
	8/16/17			N/A	N/A	16.55	81.20
	11/16/18			N/A	N/A	15.00	82.75
08652-MW-13	4/23/01	99.30	15-35	N/A	N/A	19.94	79.36
	11/20/01			N/A	N/A	21.85	77.45
	6/20/02			NR			
	10/28/09			N/A	N/A	20.74	78.56
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	18.91	80.39
	11/16/18			Not Located			
08652-MW-14	4/23/01	100.29	15-35	N/A	N/A	21.54	78.75
	11/20/01			N/A	N/A	23.42	76.87
	6/20/02			NR			
	9/15/09			Not Located			
	2/18/10			Destroyed			
08652-MW-14R	2/18/10	99.96	10-30	N/A	N/A	17.52	82.44
	10/29/15			N/A	N/A	19.90	80.06
	8/16/17			N/A	N/A	20.14	79.82

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station

410 Spartanburg Highway

Wellford, South Carolina 29365

UST Permit No. 08562

Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
	11/16/18			N/A	N/A	18.77	81.19

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-15	4/23/01	97.79	10-30	FPP			
	11/20/01			FPP			
	6/20/02			FPP			
	10/28/09			17.94	0.77	18.71	79.74 *
	2/18/10			NR			
	10/29/15			N/A	N/A	15.79	82.00
	8/16/17			N/A	N/A	16.10	81.69
	11/16/18			N/A	N/A	14.16	83.63
08652-MW-16	4/23/01	98.68	10-30	N/A	N/A	17.87	80.81
	11/20/01			N/A	N/A	19.70	78.98
	6/20/02			N/A	N/A	18.50	80.18
	9/15/09			N/A	N/A	18.19	80.49
	2/18/10			NR			
	10/29/15			N/A	N/A	16.33	82.35
	8/16/17			N/A	N/A	16.65	82.03
	11/16/18			N/A	N/A	15.30	83.38
08652-MW-17	4/23/01	98.89	10-30	N/A	N/A	18.29	80.60
	11/20/01			N/A	N/A	20.05	78.84
	6/20/02			N/A	N/A	18.83	80.06
	10/28/09			N/A	N/A	18.75	80.14
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	17.08	81.81
	11/16/18			N/A	N/A	15.30	83.59
08652-MW-18	4/23/01	98.43	10-30	N/A	N/A	18.12	80.31
	11/20/01			N/A	N/A	19.88	78.55
	6/20/02			N/A	N/A	18.61	79.82
	10/28/09			N/A	N/A	18.94	79.49
	2/18/10			NR			
	10/29/15			N/A	N/A	16.99	81.44
	8/16/17			N/A	N/A	16.85	81.58
	11/16/18			N/A	N/A	16.85	81.58

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-19	6/20/02	N/A	15-35	N/A	N/A	21.86	N/A
	10/28/09			N/A	N/A	22.18	N/A
	2/18/10			NR			
	10/29/15			Not Located			
	8/16/17			N/A	N/A	20.36	N/A
	11/16/18			N/A	N/A	18.94	N/A
08652-MW-20	2/18/10	98.68	10-30	N/A	N/A	17.19	81.49
	10/29/15			Not Located			
	8/16/17			Not Located			
	11/16/18			Destroyed			
08652-MW-21	2/18/10	99.39	15-30	N/A	N/A	16.74	82.65
	10/29/15			N/A	N/A	17.87	81.52
	8/16/17			N/A	N/A	18.02	81.37
	11/16/18			N/A	N/A	18.02	81.37
08652-MW-22	2/18/10	97.69	15-30	N/A	N/A	13.35	84.34
	10/29/15			N/A	N/A	15.83	81.86
	8/16/17			N/A	N/A	15.91	81.78
	11/16/18			N/A	N/A	14.66	83.03
08652-MW-23	2/18/10	97.33	10-30	N/A	N/A	12.42	84.91
	10/29/15			N/A	N/A	15.26	82.07
	8/16/17			N/A	N/A	15.75	81.58
	11/16/18			N/A	N/A	13.76	83.57
08652-MW-24	2/18/10	98.13	15-30	N/A	N/A	12.91	85.22
	10/29/15			N/A	N/A	15.11	83.02
	8/16/17			N/A	N/A	15.14	82.99
	11/16/18			N/A	N/A	13.78	84.35

Table 1[1]

Groundwater Elevation Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

Well ID	Date	TOC Elevation	Screened Interval (ft)	Depth to Product (ft.)	FPP Thickness (ft.)	Depth to Water (ft)	Water Table Elevation (ft)
08652-MW-25	2/18/10	98.06	10-30	N/A	N/A	15.75	82.31
	10/29/15			N/A	N/A	18.51	79.55
	8/16/17			N/A	N/A	18.86	79.20
	11/16/18			N/A	N/A	17.14	80.92
08652-VMW-1	11/20/01	98.32	55-60	N/A	N/A	25.96	72.36
	6/20/02			N/A	N/A	20.48	77.84
	9/15/09			N/A	N/A	19.28	79.04
	2/18/10			NR			
	10/29/15			N/A	N/A	17.42	80.90
	8/16/17			N/A	N/A	17.81	80.51
	11/16/18			N/A	N/A	15.92	82.40
08652-VMW-2	2/18/10	98.32	36-41	N/A	N/A	19.38	78.94
	10/29/15			Not Located			
	8/16/17			Not Located			
	11/16/18			Not Located			
08652-RW-1	*5/29/18*	98.74	15-35	*16.15*	*0.02*	*16.17*	*82.59 **
	11/16/18			N/A	N/A	15.55	83.19
08652-RW-2	*5/29/18*	98.48	15-35	*15.79*	*0.02*	*15.81*	*82.99 **
	11/16/18			15.20	0.02	15.22	83.28 *

[1] Keyed to Figure 3
N/A: Not Applicable
NR: Not Requested
FPP: Free Phase Product
* : Compensated for FPP
Italized : Gauged during AFVR Event

Table 2[1]

Summary of Groundwater Analytical Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead	Nitrate	Nitrite	Sulfate	Iron
08562-MW-1	1/21/00	**21,000**	**85,000**	**2,800**	**21,000**	ND	**460**	NR	N/A	**2.3**	0.26	ND	ND	0.79
	4/24/01	**12,400**	**38,000**	**1,660**	**21,000**	ND	**434**	NR	**835**	**1.98**	ND	ND	1.45	1.36
	11/20/01	**19,100**	**49,800**	**3,800**	**21,900**	ND	**530**	NR	N/A	**2.32**	N/A	N/A	N/A	N/A
	6/20/02	**12,100**	**34,500**	**2,330**	**12,700**	ND	**380**	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**3,300**	**26,000**	**3,700**	**21,500**	**<100**	**680**	**<100**	**69**	0.038	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	**420**	**8,600**	**1,700**	**12,000**	**<50**	**480**	**<50**	**3.1**	N/A	N/A	N/A	N/A	N/A
	8/17/17	**410**	**13,000**	**2,900**	**18,000**	**<200**	**670**	**<200**	**2.8**	N/A	N/A	N/A	N/A	N/A
	11/19/18	**270**	**8,200**	**2,200**	**13,000**	<8.0	**780**	**<8.0**	**2.2 P**	N/A	N/A	N/A	N/A	N/A
08562-MW-1 Duplicate	10/30/15	**390**	**7,900**	**1,500**	**11,000**	**<50**	**420**	**<50**	**3**	N/A	N/A	N/A	N/A	N/A
	11/19/18	**300**	**8,100**	**2,500**	**12,000**	<8.0	**870**	**<8.0**	**2.2 P**	N/A	N/A	N/A	N/A	N/A
08562-MW-2	1/21/00	**9**	**1,600**	**880**	5,000	ND	**220**	N/A	NR	**0.12**	N/A	N/A	N/A	14
	4/24/01	ND	60.2	110	420	ND	**30.9**	ND	NR	**0.315**	0.11	ND	6.76	0.463
	11/20/01	ND	262	663	3,860	ND	**125**	N/A	NR	**0.125**	N/A	N/A	N/A	N/A
	6/20/02	ND	56.6	148	541	ND	**33.8**	NA	NR	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	55	1.4	ND	**34**	<1	<0.021	0.068	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/17/17	Not Located												
	11/16/18	Not Located												
08562-MW-3	1/21/00	**4,100**	**75,000**	**3,300**	**18,000**	ND	**400**	NR	N/A	**0.063**	ND	ND	120	27
	4/24/01	**1,350**	**49,000**	**1,810**	**16,700**	ND	**614**	NR	ND	**0.445**	ND	ND	156	16
	11/20/01	**1,500**	**48,900**	**3,770**	**22,600**	ND	**645**	NR	N/A	**0.218**	N/A	N/A	N/A	N/A
	6/20/02	**711**	**44,800**	**3,760**	**20,700**	ND	**624**	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	**<100**	**8,700**	**4,400**	**16,400**	**<100**	**360**	**<100**	<0.021	**0.026**	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
	8/17/17	**<100**	640	**2,300**	**7,400**	**<100**	**330**	**<100**	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	**<80**	300	**3,200**	**11,000**	**<80**	**690**	**<80**	0.048 P	N/A	N/A	N/A	N/A	N/A
08562-MW-4	4/24/01	Not Sampled												
	11/20/01	**FPP**												
	6/20/02	**FPP**												
	9/15/09	**FPP 0.18 Ft.**												
	10/28/09	**FPP**												
	10/30/15	**FPP 0.60 Ft.**												
	8/17/17	**FPP 0.29 Ft.**												
	5/29/18	**FPP 0.12 Ft.**												
	11/16/18	**FPP 0.01 Ft.**												

Table 2[1]

Summary of Groundwater Analytical Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead	Nitrate	Nitrite	Sulfate	Iron
08562-MW-5	4/24/01	**9,480**	**28,500**	**860**	5,680	ND	NR	NR	**460**	**0.088**	0.59	ND	10.4	2.08
	11/20/01	**19,200**	**30,000**	**1,400**	**17,800**	ND	**510**	NR	N/A	**0.808**	N/A	N/A	N/A	N/A
	6/20/02	**17,100**	**36,400**	**1,740**	1,330	18	**258**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**19,000**	**51,000**	**4,100**	**23,200**	**<1,000**	**<1,000**	**<1,000**	**500**	**1.3**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	**4,700**	**27,000**	**2,100**	**20,000**	**<200**	**630**	**<200**	**48**	N/A	N/A	N/A	N/A	N/A
	8/17/17	**14,000**	**49,000**	**3,200**	**17,000**	**<1,000**	**480J**	**<1,000**	**300**	N/A	N/A	N/A	N/A	N/A
	11/19/18	**8,400**	**37,000**	**2,800**	**17,000**	**<80**	**610**	**<80**	**130 P**	N/A	N/A	N/A	N/A	N/A
08562-MW-5 Duplicate	8/17/17	**14,000**	**47,000**	**2,900**	**16,000**	**<1,000**	**410J**	**<1,000**	**270**	N/A	N/A	N/A	N/A	N/A
08562-MW-6	4/24/01	ND	ND	ND	3.1	ND	ND	NR	ND	**0.192**	0.52	0.44	ND	0.102
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**84**	150	19	68	<1	<1	<1	<0.021	**0.041**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0048	N/A	N/A	N/A	N/A	N/A
08562-MW-6 Duplicate	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
08562-MW-7	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.144**	1.11	ND	ND	0.19
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.053**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	Not Located												
	10/30/15	Destroyed												
	8/17/17	Destroyed												
	11/16/18	Destroyed												
08562-MW-8	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.016**	0.79	ND	ND	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	0.007	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	1.1	<1	<3	<1	<1	<1	<0.022	**0.28**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/17/17	<1	<1	<1	<1	<1	<1	<1	0.0084JP	N/A	N/A	N/A	N/A	N/A
	11/19/18	<0.40	13	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
08562-MW-9	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.404**	1.84	ND	1.44	0.615
	11/20/01	Not Sampled												
	6/20/02	Not Sampled												
	9/15/09	Not Located												
	10/28/09	Not Located												
08562-MW-9R	10/30/15	<1	<1	<1	<1	1.1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Analytical Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
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Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead	Nitrate	Nitrite	Sulfate	Iron
08562-MW-10	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.078**	2.48	ND	1.42	0.184
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	NR	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	<1	<0.021	N/A	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/16/17	Not Located												
	11/16/18	Not Located												
08562-MW-11	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.092**	1.22	ND	5.65	10.2
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.042**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	NR	<0.021	**0.016**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	2.7	<1	<1	<1	7.2	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	2.3	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/19/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
08562-MW-12	4/24/01	**4,850**	**5,160**	**1,090**	6,150	ND	**93.0**	NR	**30.1**	**0.094**	ND	ND	2.32	ND
	11/20/01	**4,410**	467	410	3,270	ND	**194**	NR	N/A	**0.109**	N/A	N/A	N/A	N/A
	6/20/02	**2,400**	682	497	2,140	ND	**194**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**950**	**2,200**	**1,100**	4,900	38	**320**	**55**	**3.6**	**0.023**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/19/18	**150**	40	4.0	0.51 J	1.4	6.8	**10**	<0.0049	N/A	N/A	N/A	N/A	N/A
08652-MW-13	4/24/01	**2,300**	29.8	45.8	**15,000**	ND	**28.2**	NR	**11.6**	0.003	ND	ND	ND	ND
	11/20/01	**1,790**	23.5	497	303	ND	**101**	NR	N/A	**0.138**	N/A	N/A	N/A	N/A
	6/20/02	**2,050**	ND	385	2,700	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<1	<1	4.1	49	<1	<1	**20**	<0.021	**0.24**	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
	8/16/17	**6.4**	<1	<1	2	<1	<1	2.5	0.014JP	N/A	N/A	N/A	N/A	N/A
	11/16/18	Not Located												
08562-MW-14	4/24/01	**2,800**	ND	ND	ND	ND	ND	NR	ND	**0.119**	1.05	ND	4.18	0.288
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.196**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	Not Located												
08562-MW-14R	10/30/15	<1	<1	<1	1.2	<1	<1	<1	0.025	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	N/A	N/A	N/A	N/A	N/A

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RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead	Nitrate	Nitrite	Sulfate	Iron
08652-MW-15	4/24/01	Not Sampled												
	11/20/01	**FPP**												
	6/20/02	**FPP**												
	9/15/09	**FPP**												
	10/28/09	**FPP 0.77 Ft.**												
	10/30/15	**1,700**	**16,000**	**1,900**	**15,000**	**<50**	**610**	**<50**	**20**	N/A	N/A	N/A	N/A	N/A
	8/17/17	**2,600**	**42,000**	**7,000**	**42,000**	**<1,000**	**1,600**	**<1,000**	**44**	N/A	N/A	N/A	N/A	N/A
	11/19/18	**2,600**	**22,000**	**2,500**	**14,000**	**<200**	**650**	**<200**	**32 P**	N/A	N/A	N/A	N/A	N/A
08562-MW-16	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.089**	0.81	ND	9.26	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	ND	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	ND	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	<1	<0.021	0	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	<1	<1	<1	<1	4.9	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0051	N/A	N/A	N/A	N/A	N/A
08562-MW-17	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.13**	0.20	ND	ND	ND
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	0.004	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	<1	<1	<1	<3	<1	<1	<1	<0.021	**0.015**	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	Not Located												
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0051	N/A	N/A	N/A	N/A	N/A
08562-MW-18	4/24/01	ND	ND	ND	ND	ND	ND	NR	ND	**0.039**	10.80	ND	ND	0.126
	11/20/01	ND	ND	ND	ND	ND	ND	NR	N/A	**0.049**	N/A	N/A	N/A	N/A
	6/20/02	ND	ND	ND	ND	ND	ND	NR	N/A	**0.039**	N/A	N/A	N/A	N/A
	9/15/09	Not Located												
	10/28/09	<1	<1	<1	<3	<1	<1	NR	<0.021	<0.0050	N/A	N/A	N/A	N/A
	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
08562-MW-19	6/20/02	ND	ND	ND	ND	ND	ND	N/A	N/A	N/A	NR	NR	NR	NR
	9/15/09	Not Sampled												
	10/28/09	<1	<1	<1	<3	<1	<1	<1	<0.021	0	NR	NR	NR	NR
	10/30/15	Not Located												
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	N/A	N/A	N/A	N/A	N/A

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RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead	Nitrate	Nitrite	Sulfate	Iron
08562-MW-20	10/30/15	Destroyed												
	8/17/17	Destroyed												
	11/16/18	Destroyed												
08562-MW-21	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/19/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	N/A	N/A	N/A	N/A	N/A
08562-MW-22	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	0.56J	<1	<1	<1	1.1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	N/A	N/A	N/A	N/A	N/A
08562-MW-22 Duplicate	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0051	N/A	N/A	N/A	N/A	N/A
08562-MW-23	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/19/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	N/A	N/A	N/A	N/A	N/A
08562-MW-24	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
08562-MW-25	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
08562-VMW-1	4/24/01	**67.4**	140	29.3	199	ND	30.4	NR	ND	ND	NR	NR	26,800	0.111
	11/20/01	2.9	3.7	ND	3.4	ND	ND	N/A	N/A	ND	NR	NR	N/A	N/A
	6/20/02	3.8	4.7	ND	7.1	ND	ND	NR	N/A	N/A	N/A	N/A	N/A	N/A
	9/15/09	**7**	9.7	<1	6.4	<1	1.6	<1	<0.021	<0.0050	N/A	N/A	N/A	N/A
	10/28/09	Not Sampled												
	10/30/15	1.5	2.1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	0.65J	1.2	<1	0.49J	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/19/18	1.4	0.64 J	<0.40	1.0	<0.40	<0.40	<0.40	<0.0051	N/A	N/A	N/A	N/A	N/A
08562-VMW-2	2/18/10	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	10/30/15	Not Located												
	8/16/17	Not Located												
	11/16/18	Not Located												
08562-RW-1	5/29/18	**FPP 0.02 Ft.**												
	11/19/18	**89 J**	**9,000**	**2,600**	**14,000**	**<40**	**590**	**<40**	**0.12**	N/A	N/A	N/A	N/A	N/A
08562-RW-2	5/29/18	**FPP 0.02 Ft.**												
	11/16/18	**FPP 0.02 Ft.**												

Table 2[1]

Summary of Groundwater Analytical Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							EPA METHOD 8011 (ug/L)	EPA METHOD 6010 (mg/L)	EPA METHOD 9056 (mg/L)	EPA METHOD SM4500 NO2B	EPA METHOD 9056 (mg/L)	EPA METHOD 200.7 (mg/L)
RBSLs		5	1,000	700	10,000	40	25	5	0.05	0.015	N/A	N/A	N/A	N/A
Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead	Nitrate	Nitrite	Sulfate	Iron
08562-Field Blank	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/16/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/16/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
	11/19/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	N/A	N/A	N/A	N/A	N/A
08562-Trip Blank	10/30/15	<1	<1	<1	<1	<1	<1	<1	<0.019	N/A	N/A	N/A	N/A	N/A
	8/17/17	<1	<1	<1	<1	<1	<1	<1	<0.020	N/A	N/A	N/A	N/A	N/A
	11/19/18	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	N/A	N/A	N/A	N/A	N/A	N/A

[1]Keyed to Figure 4

Concentrations in bold exceed the Risk Based Screening Levels (RBSLs)

N/A: Not Applicable

J: Estimated result < Limit of Quantitation (LOQ) and > Detection Limit (DL)

P: The RPD between two GC columns exceeds 40%

Table 3[1]

Summary of Groundwater Oxygenate Data

Rhodes Service Station

410 Spartanburg Highway

Wellford, South Carolina 29365

UST Permit No. 08562

Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-1	9/15/09	<10.6	<1,190	<111	<5.18	**<1,080**	<6.96	<82.4	<7.14
	10/30/15	<50	<5,000	<1,000	**<50**	**<1,000**	**<500**	<1,000	<250
	8/17/17	**<200**	**<20,000**	<4,000	**<200**	**<4,000**	**<2,000**	**<4,000**	<1,000
	11/19/18	<8.0	<800	<160	<8.0	220 J	<8.4	<160	<40
08562-MW-1 Duplicate	10/30/15	<50	<5,000	<1,000	**<50**	**<1,000**	**<500**	<1,000	<250
	11/19/18	<8.0	<800	<160	<8.0	230 J	<8.4	<160	<40
08562-MW-2	9/15/09	<0.529	<59.5	<5.56	<0.259	176	<0.348	<4.12	<0.357
	10/30/15	Not Located							
	8/17/17	Not Located							
	11/16/18	Not Located							
08562-MW-3	10/28/09	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	10/30/15	Not Located							
	8/17/17	<100	**<10,000**	<2,000	**<100**	**<2,000**	**<1,000**	**<2,000**	<500
	11/16/18	<80	<8,000	<1,600	**<80**	**<1,600**	<84	**<1,600**	<400
08562-MW-4	10/29/15	**FPP 0.60 Ft.**							
	8/16/17	**FPP 0.29 Ft.**							
	11/16/18	**FPP 0.01 Ft.**							
08562-MW-5	9/15/09	**321**	<1,190	<111	<5.18	**7,950**	<6.96	<82.4	<7.14
	10/30/15	**<200**	**<20,000**	<4,000	**<200**	**<4,000**	**<2,000**	**<4,000**	<1,000
	8/17/17	**<1,000**	**<100,000**	<20,000	**<1,000**	**<20,000**	**<10,000**	**<20,000**	<5,000
	11/19/18	**<200**	**<20,000**	<4,000	**<200**	**<4,000**	**<210**	**<4,000**	<1,000
08562-MW-5 Duplicate	8/17/17	**<1,000**	**<100,000**	<20,000	**<1,000**	**<20,000**	**<10,000**	**<20,000**	<5,000

Table 3[1]

Summary of Groundwater Oxygenate Data

Rhodes Service Station

410 Spartanburg Highway

Wellford, South Carolina 29365

UST Permit No. 08562

Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-6	9/15/09	<2.65	<298	<27.8	<1.3	**1,110**	<1.74	<20.6	<1.79
	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-6 Duplicate	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
08562-MW-7	10/30/15	Destroyed							
	8/17/17	Destroyed							
	11/16/18	Destroyed							
08562-MW-8	9/15/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-9R	10/30/15	Not Located							
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-10	9/15/09	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/15	Not Located							
	8/16/17	Not Located							
	11/16/18	Not Located							
08562-MW-11	9/15/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0

Table 3[1]

Summary of Groundwater Oxygenate Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-12	9/15/09	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
	10/30/15	25.6	<298	<27.8	<1.3	**812**	<1.74	<20.6	<1.79
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	5.6	<40	<8.0	<0.40	130	<0.42	160	<2.0
08562-MW-13	10/28/09	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/2015	<3.69	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/16/17	<1	<100	<20	<1	19J	<10	<20	<5
	11/16/18	Not Located							
08562-MW-14R	10/30/15	Not Located							
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-15	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	**<1,000**	**<100,000**	<20,000	**<1,000**	**<20,000**	**<10,000**	**<20,000**	<5,000
	11/19/18	**<200**	**<20,000**	<4,000	**<200**	**<4,000**	**<210**	**<4,000**	<1,000
08562-MW-16	9/15/09	<50	<5,000	<1,000	**<50**	**<1,000**	**<500**	<1,000	<250
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-17	9/15/09	<1.0	<100	<20	<1.0	<20	<10	<20	<5.0
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0

Table 3[1]

Summary of Groundwater Oxygenate Data

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-18	10/28/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-19	10/28/09	Not Located							
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-20	10/30/15	Destroyed							
	8/17/17	Destroyed							
	11/16/18	Destroyed							
08562-MW-21	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-22	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-22 Duplicate	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-23	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0

Table 3[1]

Summary of Groundwater Oxygenate Data

Rhodes Service Station

410 Spartanburg Highway

Wellford, South Carolina 29365

UST Permit No. 08562

Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-MW-24	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-MW-25	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-VMW-1	9/15/09	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/15	<0.529	<59.5	<5.56	<0.259	<15.6	<0.348	<4.12	<0.357
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-VMW-2	2/18/15	<1	<100	<20	<1	<20	<10	<20	<5
	10/30/15	<5		<20	<1	<20	<10	<20	<5
	10/30/15	Not Located							
	8/16/17	Not Located							
	11/16/18	Not Located							
08562-RW-1	5/29/18	**FPP 0.02 Ft.**							
	11/19/18	<40	<4,000	<800	<40	**<2,000**	<42	<800	<200
08562-RW-2	5/29/18	**FPP 0.02 Ft.**							
	11/19/18	**FPP 0.02 Ft.**							

Table 3[1]

Summary of Groundwater Oxygenate Data

Rhodes Service Station

410 Spartanburg Highway

Wellford, South Carolina 29365

UST Permit No. 08562

Blue Ridge Project No. 17-6023.3

		EPA METHOD 8260 (ug/L)							
Action Levels		150	10,000	None	47	240	128	1,400	None
Well ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
08562-Field Blank	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/16/17	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/16/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0
08562-Trip Blank	10/30/15	<1	<100	<20	<1	<20	<10	<20	<5
	8/17/17	<1	<100	<20	<1	<20	<10	<20	<5
	11/19/18	<0.40	<40	<8.0	<0.40	<8.0	<0.42	<8.0	<2.0

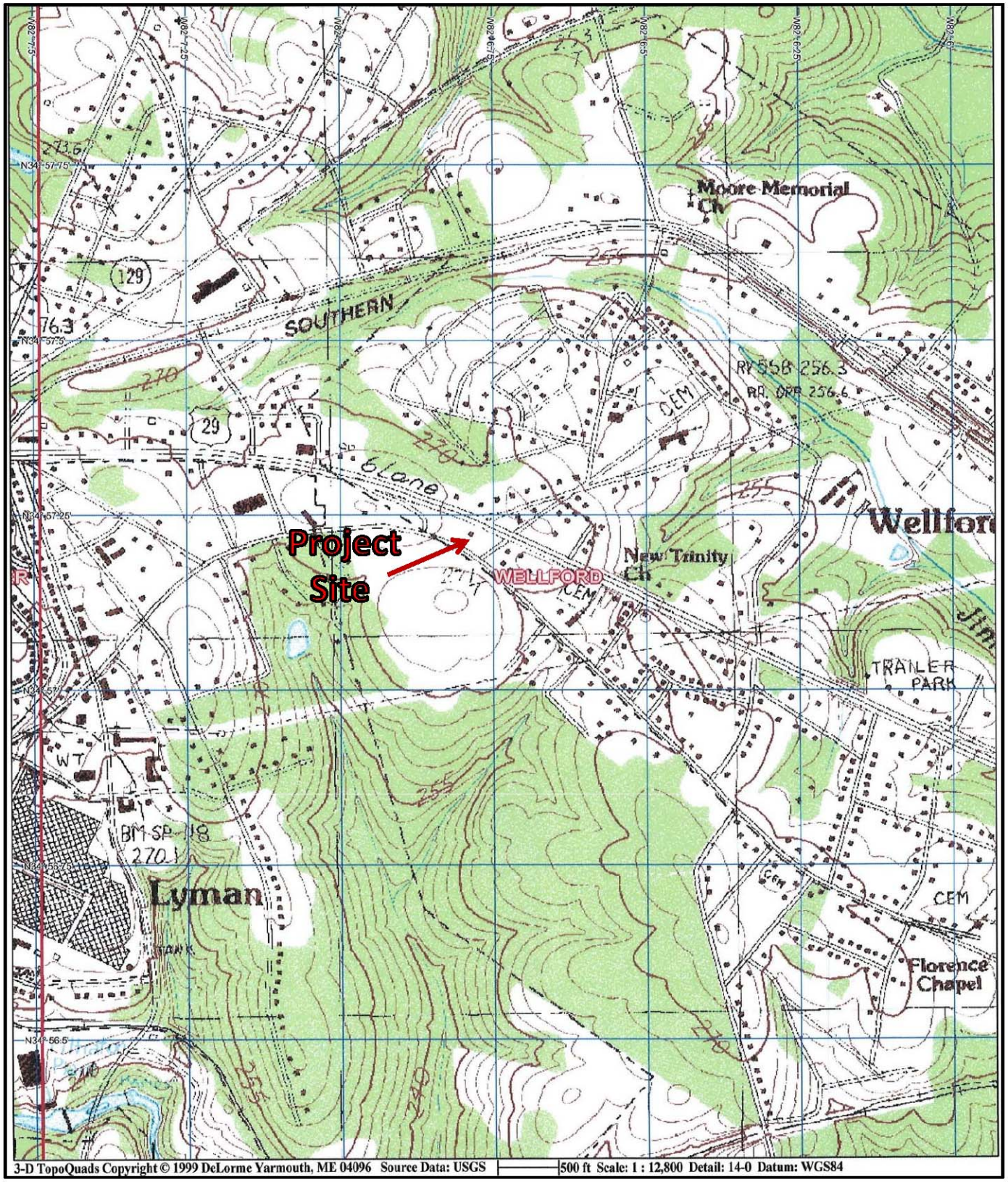
[1]Keyed to Figure 4

Detectable concentrations are noted in bold.

N/A: Not Applicable

J: Estimated result < Limit of Quantitation (LOQ) and > Detection Limit (DL)

FIGURES



TOPOGRAPHIC MAP

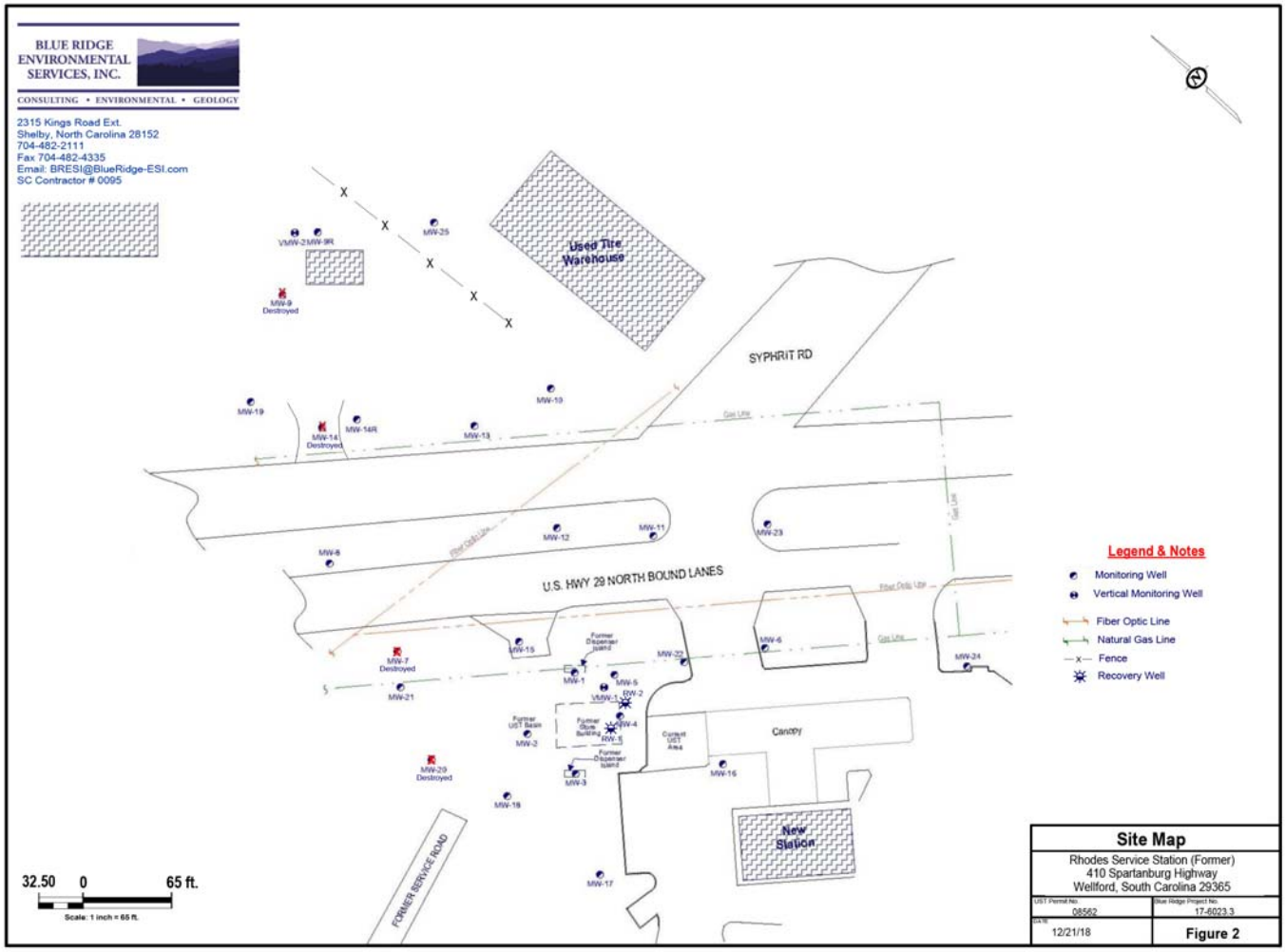
0 1,111 ft.

North

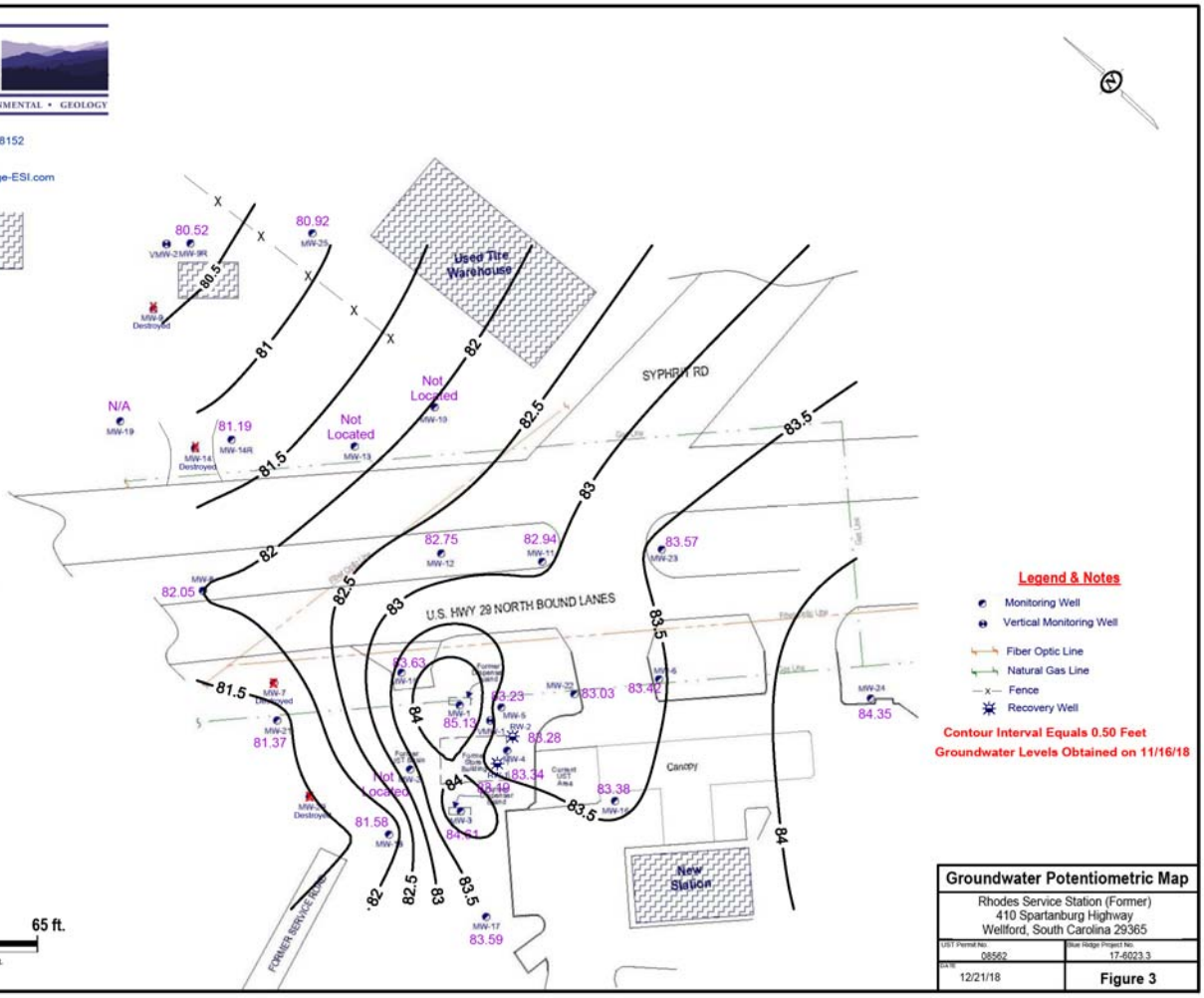
BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor: # 0095

Client:	Robert F. Turner
Project:	Rhodes Service Station (Former)
Location:	410 Spartanburg Highway South
	Wellford, South Carolina 29365
Blue Ridge Project #:	17-6023.3
Date: 12/21/18	Approximate Scale: 1" = 1,111' — Figure 1


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095
Used Tire Warehouse
SYPHRIT RD
U.S. HWY 29 NORTH BOUND LANES
FORMER SERVICE ROAD
Canopy
New Station
MW-25
VMW-2
MW-9R
MW-9 Destroyed
MW-19
MW-14 Destroyed
MW-14R
MW-13
MW-12
MW-11
MW-23
MW-8
MW-7 Destroyed
MW-15
MW-6
MW-24
MW-21
MW-1
MW-5
VMW-1
RW-2
RW-4
RW-5
MW-2
MW-3
MW-16
MW-29 Destroyed
MW-18
MW-17
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
Recovery Well
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
Site Map
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3
DATE 12/21/18
Figure 2

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095



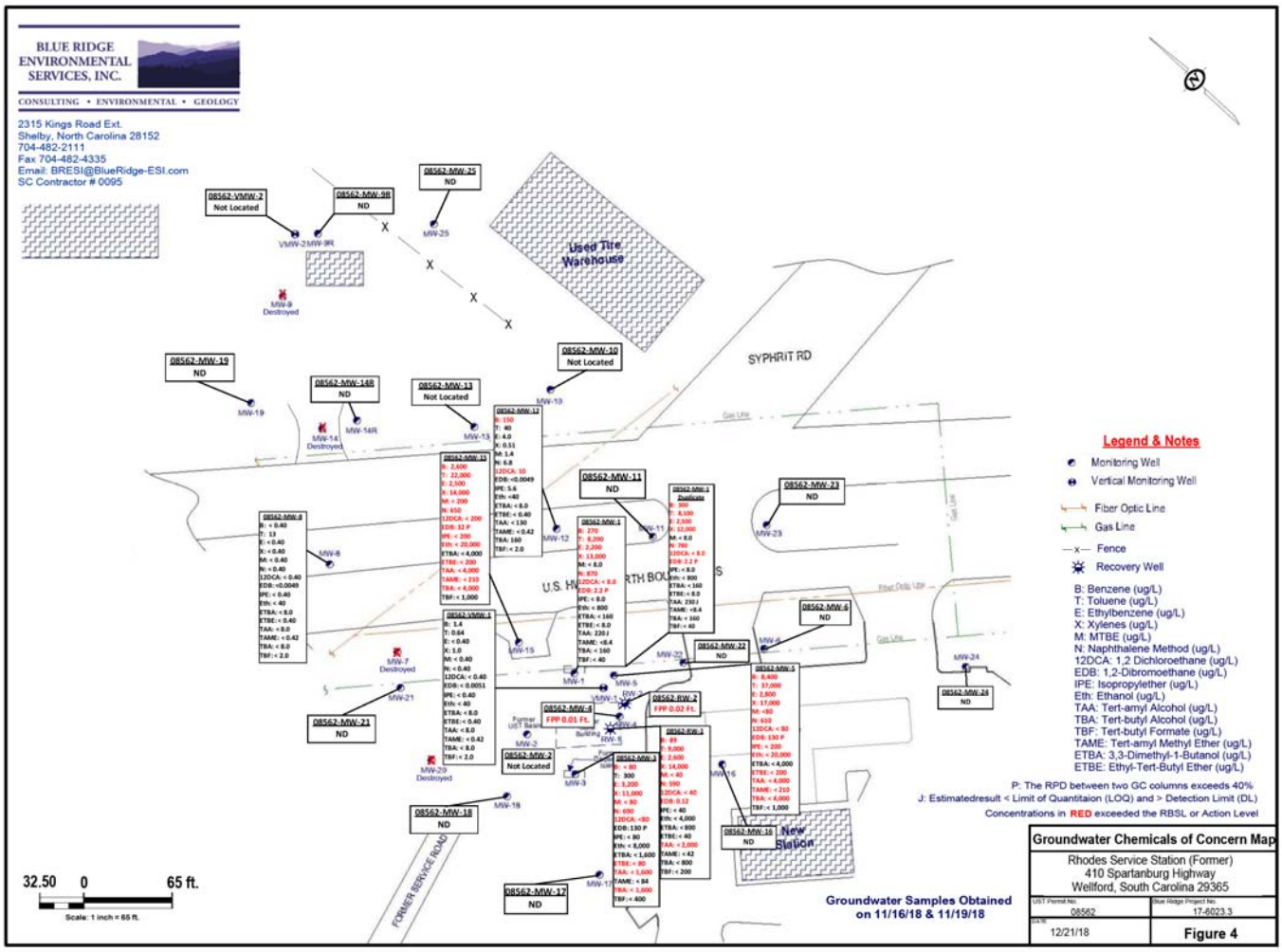
Legend & Notes

- Monitoring Well
- Vertical Monitoring Well
- Fiber Optic Line
- Natural Gas Line
- Fence
- Recovery Well

Contour Interval Equals 0.50 Feet

Groundwater Levels Obtained on 11/16/18

Groundwater Potentiometric Map	
Rhodes Service Station (Former) 410 Spartanburg Highway Wellford, South Carolina 29365	
UST Permit No. 08562	Blue Ridge Project No. 17-6023.3
DATE 12/21/18	Figure 3


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095
08562-VMW-2 Not Located
08562-MW-9R ND
08562-MW-25 ND
MW-25
VMW-2
MW-9R
MW-9 Destroyed
Used Tire Warehouse
SYPHRIT RD
08562-MW-19 ND
MW-19
08562-MW-14R ND
MW-14 Destroyed
MW-14R
08562-MW-13 Not Located
MW-13
08562-MW-10 Not Located
MW-10
08562-MW-12
B: 150
T: 40
E: 4.0
X: 0.51
M: 1.4
N: 6.8
12DCA: 10
EDB: <0.0049
IPE: 5.6
Eth: <40
ETBA: < 8.0
ETBE: < 0.40
TAA: < 130
TAME: < 0.42
TBA: 160
TBF: < 2.0
MW-12
08562-MW-15
B: 2,600
T: 22,000
E: 2,500
X: 14,000
M: < 200
N: 650
12DCA: < 200
EDB: 32 P
IPE: < 200
Eth: < 20,000
ETBA: < 4,000
ETBE: < 200
TAA: < 4,000
TAME: < 210
TBA: < 4,000
TBF: < 1,000
MW-15
08562-MW-11 ND
MW-11
08562-MW-1
B: 270
T: 8,200
E: 2,200
X: 13,000
M: < 8.0
N: 870
12DCA: < 8.0
EDB: 2.2 P
IPE: < 8.0
Eth: < 800
ETBA: < 160
ETBE: < 8.0
TAA: 220 J
TAME: <8.4
TBA: < 160
TBF: < 40
MW-1
08562-MW-1 Duplicate
B: 300
T: 8,100
E: 2,300
X: 12,000
M: < 8.0
N: 780
12DCA: < 8.0
EDB: 2.2 P
IPE: < 8.0
Eth: < 800
ETBA: < 160
ETBE: < 8.0
TAA: 230 J
TAME: <8.4
TBA: < 160
TBF: < 40
08562-MW-23 ND
MW-23
08562-MW-6 ND
MW-6
08562-MW-22 ND
MW-22
08562-MW-24 ND
MW-24
08562-MW-8
B: < 0.40
T: 13
E: < 0.40
X: < 0.40
M: < 0.40
N: < 0.40
12DCA: < 0.40
EDB: <0.0049
IPE: < 0.40
Eth: < 40
ETBA: < 8.0
ETBE: < 0.40
TAA: < 8.0
TAME: < 0.42
TBA: < 8.0
TBF: < 2.0
MW-8
MW-7 Destroyed
MW-21
08562-MW-21 ND
08562-VMW-1
B: 3.4
T: 0.64
E: < 0.40
X: 1.0
M: < 0.40
N: < 0.40
12DCA: < 0.40
EDB: < 0.0051
IPE: < 0.40
Eth: < 40
ETBA: < 8.0
ETBE: < 0.40
TAA: < 8.0
TAME: < 0.42
TBA: < 8.0
TBF: < 2.0
MW-29 Destroyed
MW-1
MW-5
VMW-1
RW-1
08562-MW-4 FPP 0.01 Ft.
MW-4
08562-RW-2 FPP 0.02 Ft.
RW-2
RW-5
MW-2
08562-MW-2 Not Located
MW-3
08562-MW-3
B: < 80
T: 300
E: 1,200
X: 11,000
M: < 80
N: 690
12DCA: <80
EDB: 130 P
IPE: < 80
Eth: < 8,000
ETBA: < 1,600
ETBE: < 80
TAA: < 1,600
TAME: < 84
TBA: < 1,600
TBF: < 400
08562-RW-1
B: 89
T: 9,000
E: 2,600
X: 14,000
M: < 40
N: 590
12DCA: < 40
EDB: 0.12
IPE: < 40
Eth: < 4,000
ETBA: < 800
ETBE: < 40
TAA: < 2,000
TAME: < 42
TBA: < 800
TBF: < 200
08562-MW-5
B: 8,600
T: 37,000
E: 2,800
X: 17,000
M: <80
N: 610
12DCA: < 80
EDB: 130 P
IPE: < 200
Eth: < 20,000
ETBA: < 4,000
ETBE: < 200
TAA: < 4,000
TAME: < 210
TBA: < 4,000
TBF: < 1,000
MW-16
08562-MW-16 ND
New Station
08562-MW-18 ND
MW-18
FORMER SERVICE ROAD
08562-MW-17 ND
MW-17
Gas Line
Fiber Optic Line
Former UST Basin
Building
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
Groundwater Samples Obtained on 11/16/18 & 11/19/18
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Gas Line
Fence
Recovery Well
B: Benzene (ug/L)
T: Toluene (ug/L)
E: Ethylbenzene (ug/L)
X: Xylenes (ug/L)
M: MTBE (ug/L)
N: Naphthalene Method (ug/L)
12DCA: 1,2 Dichloroethane (ug/L)
EDB: 1,2-Dibromoethane (ug/L)
IPE: Isopropylether (ug/L)
Eth: Ethanol (ug/L)
TAA: Tert-amyl Alcohol (ug/L)
TBA: Tert-butyl Alcohol (ug/L)
TBF: Tert-butyl Formate (ug/L)
TAME: Tert-amyl Methyl Ether (ug/L)
ETBA: 3,3-Dimethyl-1-Butanol (ug/L)
ETBE: Ethyl-Tert-Butyl Ether (ug/L)
P: The RPD between two GC columns exceeds 40%
J: Estimatedresult < Limit of Quantitaion (LOQ) and > Detection Limit (DL)
Concentrations in RED exceeded the RBSL or Action Level
Groundwater Chemicals of Concern Map
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.3
DATE 12/21/18
Figure 4

APPENDICES

APPENDIX A

D H E C
PROMOTE PROTECT PROSPER

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

Site Information

Date:	Site ID #:	Site Name:
11/16 & 11/19, 2018	08562	Rhodes Service Station
County:	**Project Manager:**	**Field Personnel:**
Spartanburg	Quincy Hoffer	JW & KP

Well Sampling Information

	Well ID	Time	Sampled Y/N	Screen Interval (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	D.O. (mg/L)	Temp. (°C)	Specific Conductivity (µmohs/cm)	pH (S.U.)	Turbidity (NTU)	Notes (e.g., Odor, No Odor, Product, etc.)
08562	MW-1	1118/1119	Y	15 - 35	—	14.87	—	6.11	18.93	0.085	6.04	1000+	odor, Dup
08562	MW-2	—	N	15 - 25	—	—	—	—	—	—	—	—	Not Located
08562	MW-3	1542	Y	15 - 25	—	14.96	—	8.78	18.52	0.099	6.55	488	odor
08562	MW-4	—	N	10 - 30	15.31	15.32	0.01	—	—	—	—	—	FPP ~0.01'
08562	MW-5	1135	Y	10 - 30	—	14.62	—	6.24	18.95	0.049	5.49	1000+	odor
08562	MW-6	1340	Y	10 - 30	—	14.45	—	7.45	18.71	0.035	4.74	1000+	No odor
08562	MW-7	—	N	10 - 30	—	—	—	—	—	—	—	—	Destroyed
08562	MW-8	1327	Y	10 - 30	—	17.28	—	6.46	20.13	0.069	6.46	1000+	No odor
08562	MW-9R	1107	Y	10 - 30	—	17.91	—	5.36	18.23	0.086	4.97	1000+	No odor
08562	MW-10	—	N	10 - 30	—	—	—	—	—	—	—	—	Not Located
08562	MW-11	1352	Y	7 - 27	—	15.55	—	5.43	20.21	0.036	5.58	1000+	No lid/cap
08562	MW-12	1340	Y	10 - 30	—	15.00	—	5.65	20.05	0.025	5.92	1000+	No lid/cap
08562	MW-13	—	N	15 - 35	—	—	—	—	—	—	—	—	Not Located
08562	MW-14R	1147	Y	10 - 30	—	18.77	—	4.65	19.10	0.072	4.35	1000+	No odor
08562	MW-15	1108	Y	10 - 30	—	14.16	—	6.16	20.10	0.210	6.47	178	odor

Comments: 08562-MW-10 & 08562-MW-13 were not located and under sheds.
08562-MW-4 contained 0.01' of FPP
08562-MW-11 & 08562-MW-12 did not have a manhole lid or well cap upon arrival

Signature: _____

D H E C
PROMOTE PROTECT PROSPER

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

Site Information

Date:	Site ID #:	Site Name:
11/16 + 11/19, 2018	08562	Rhodes Service Station
County:	**Project Manager:**	**Field Personnel:**
Spartanburg	Quincy Hoffer	JW + KP

Well Sampling Information

	Well ID	Time	Sampled Y/N	Screen Interval (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	D.O. (mg/L)	Temp. (°C)	Specific Conductivity (µmohs/cm)	pH (S.U.)	Turbidity (NTU)	Notes (e.g., Odor, No Odor, Product, etc.)
08562	MW-16	1423	Y	10 - 30	—	15.30	—	7.77	20.59	0.091	5.76	1000+	No odor
08562	MW-17	1455	Y	10 - 30	—	15.36	—	9.07	19.26	0.026	4.73	1000+	No odor
08562	MW-18	1527	Y	10 - 30	—	15.37	—	9.75	18.84	0.719	4.36	1000+	No odor
08562	MW-19	1124	Y	15 - 35	—	18.94	—	4.77	18.35	0.044	5.20	1000+	No odor
08562	MW-20	—	N	10 - 30	—	—	—	—	—	—	—	—	Destroyed
08562	MW-21	1603	Y	15 - 30	—	16.60	—	8.27	19.15	0.023	5.05	1000+	No odor
08562	MW-22	1401/1402	Y	15 - 30	—	14.66	—	8.32	20.57	0.068	5.63	1000+	No odor/Duplicate
08562	MW-23	1404	Y	10 - 30	—	13.76	—	5.41	19.58	0.034	6.07	1000+	No odor
08562	MW-24	1315	Y	15 - 30	—	13.78	—	8.17	19.78	0.027	4.75	113	No odor
08562	MW-25	1216	Y	10 - 30	—	17.14	—	5.25	19.25	0.140	5.33	1000+	No odor
08562	AW-1	1227	Y	15 - 35	—	15.55	—	6.35	20.42	0.521	6.96	1000+	odor
08562	AW-2	—	N	15 - 35	15.20	15.22	0.02	—	—	—	—	—	FPP - 0.02'
08562	VMW-1	1204	Y	55 - 60	—	15.92	—	5.78	18.99	0.444	7.77	88.0	No odor
08562	VMW-2	—	N	36 - 41	—	—	—	—	—	—	—	—	Not located

Comments: 08562-MW-20 is destroyed
08562-AW-2 contained 0.02' of FPP
08562-VMW-2 was not located.

Signature:

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/19/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-1	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.87	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 10.13	1 casing volume (CV=LWC*C)(gals): 1.62	3 casing volumes 3*CV)(gals): 4.86	5 casing volumes (5*CV)(gals): 8.1

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	1.65	3.30					
Time (military)	1110	1112						1120
PH (s.u.)	6.38	6.09	Dry @					6.04
Specific Conductivity (µS/cm)	0.072	0.073						0.085
Water Temperature (°C)	19.61	19.12	2.31 gal.					18.93
Turbidity (NTU)	38.6	1000+						1000+
Dissolved Oxygen (mg/L)	6.02	6.16						6.11

Sampling Data

Sampled By: JW	Sampling Time: 1118	Duplicate: (Y) or N	If yes, Duplicate Time: 1119

Notes: odor

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-16-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-2	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		Not Located						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No sample. well under brush/large tree. Not Located.

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-16-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-3	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.96	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 10.04	1 casing volume (CV=LWC*C)(gals): 1.61	3 casing volumes 3*CV)(gals): 4.83	5 casing volumes (5*CV)(gals): 8.05

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	1.65	3.3	4.95				
Time (military)	1535	1539	1540				1543	
PH (s.u.)	5.49	6.08	Dry @ 1.98 gal				6.55	
Specific Conductivity (µS/cm)	0.563	0.973					0.099	
Water Temperature (°C)	17.57	18.29					18.52	
Turbidity (NTU)	610	1000+					488	
Dissolved Oxygen (mg/L)	8.86	8.81					8.78	

Sampling Data

Sampled By: JW	Sampling Time: 1542	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Odor - Hot

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-4	Well Diameter (ft.): 0.16	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.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): 15.31	Depth to Groundwater (DGW) (ft.): 15.32		Free Product Thickness (ft.): 0.01
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		No Sample 0.01' FPP						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: 0.01' FPP Gauged

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-5	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.62	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 15.38	1 casing volume (CV=LWC*C)(gals): 2.46	3 casing volumes 3*CV)(gals): 7.35	5 casing volumes (5*CV)(gals): 12.3

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28					
Time (military)	1126	1130	1132				1136	
PH (s.u.)	5.78	5.31	Dry				5.49	
Specific Conductivity (µS/cm)	0.050	0.050	3.96				0.049	
Water Temperature (°C)	19.72	19.60					18.95	
Turbidity (NTU)	365	1000+					1000+	
Dissolved Oxygen (mg/L)	5.65	5.95					6.24	

Sampling Data

Sampled By: JW	Sampling Time: 1135	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: odor

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-16-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-6	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.45	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 15.55	1 casing volume (CV=LWC*C)(gals): 2.48	3 casing volumes 3*CV)(gals): 7.44	5 casing volumes (5*CV)(gals): 12.4

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28	7.92				
Time (military)	1330	1333	1336	1339				
PH (s.u.)	4.87	4.79	4.77	4.74				
Specific Conductivity (µS/cm)	0.037	0.037	0.037	0.035				
Water Temperature (°C)	19.52	18.40	18.78	18.71				
Turbidity (NTU)	946	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	7.21	7.72	7.39	7.45				

Sampling Data

Sampled By: JW	Sampling Time: 1340	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-8	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.28		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 12.72	1 casing volume (CV=LWC*C)(gals): 2.04	3 casing volumes 3*CV)(gals): 6.12	5 casing volumes (5*CV)(gals): 10.20

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	2.31	4.29	6.27				
Time (military)	1318	1323	Dry @				1328	
PH (s.u.)	7.51	7.17	3.36 gal				6.46	
Specific Conductivity (µS/cm)	0.051	0.032					0.069	
Water Temperature (°C)	21.71	20.43					20.13	
Turbidity (NTU)	174	1000+					1000+	
Dissolved Oxygen (mg/L)	13.11	6.52					6.46	

Sampling Data

Sampled By: JW	Sampling Time: 1327	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F): 41

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-9R	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.91		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 12.09	1 casing volume (CV=LWC*C)(gals): 1.93	3 casing volumes 3*CV)(gals): 5.79	5 casing volumes (5*CV)(gals): 9.65

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.98	3.96	5.94				
Time (military)	1050	1056	1101	1105				
PH (s.u.)	4.28	4.42	4.56	4.47				
Specific Conductivity (µS/cm)	0.225	0.042	0.081	0.080				
Water Temperature (°C)	16.97	17.86	17.36	18.23				
Turbidity (NTU)	100.0+	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	6.43	5.93	5.56	5.36				

Sampling Data

Sampled By: JW	Sampling Time: 11:07	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-10	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):	
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		Not Located						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: The property sells sheds and it appears a shed is sitting on top of the well.

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW11	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 7 to 27		Total Well Depth (TWD) (ft.): 27
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.55		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 11.45	1 casing volume (CV=LWC*C)(gals): 1.8	3 casing volumes 3*CV)(gals): 5.4	5 casing volumes (5*CV)(gals): 9

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.98	3.96					
Time (military)	1349							1353
PH (s.u.)	5.66	Dry @						5.58
Specific Conductivity (µS/cm)	0.023	1.656						0.036
Water Temperature (°C)	19.83							20.21
Turbidity (NTU)	292							1000+
Dissolved Oxygen (mg/L)	5.47							5.43

Sampling Data

Sampled By: JW	Sampling Time: 1352	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Manhole lid / well cap

Signature:

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly Cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW12	Well Diameter (ft.): 0.16	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.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.00		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 15	1 casing volume (CV=LWC*C)(gals): 2.4	3 casing volumes 3*CV)(gals): 7.2	5 casing volumes (5*CV)(gals): 12

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28					
Time (military)	1334	1336						1341
PH (s.u.)	6.54	6.12	Dry @					5.92
Specific Conductivity (µS/cm)	0.025	0.029	3.3 (gallons)					0.025
Water Temperature (°C)	20.05	20.03						20.05
Turbidity (NTU)	270	772						1000+
Dissolved Oxygen (mg/L)	5.61	5.63						5.65

Sampling Data

Sampled By: JW	Sampling Time: 1340	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No Manhole lid / well cap

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-13	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		Not Located						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Also on property that sells sheds and is under a shed.

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-4/R	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 18.77		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 11.23	1 casing volume (CV=LWC*C)(gals): 1.79	3 casing volumes 3*CV)(gals): 5.37	5 casing volumes (5*CV)(gals): 8.95

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	1.98	3.96	5.94				
Time (military)	11:33	11:37	11:40	11:44				
PH (s.u.)	4.41	4.38	4.36	4.35				
Specific Conductivity (µS/cm)	0.053	0.071	0.077	0.072				
Water Temperature (°C)	18.93	18.85	18.93	19.10				
Turbidity (NTU)	100	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	4.89	4.64	4.67	4.65				

Sampling Data

Sampled By: JW	Sampling Time: 11:47	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly Cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW 15	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.16		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 15.84	1 casing volume (CV=LWC*C)(gals): 2.53	3 casing volumes 3*CV)(gals): 7.59	5 casing volumes (5*CV)(gals): 12.65

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28	7.92				
Time (military)	1050	1057	1101	1106				
PH (s.u.)	4.75	6.41	6.42	6.47				
Specific Conductivity (µS/cm)	0.308	0.212	0.210	0.210				
Water Temperature (°C)	19.76	19.18	19.90	20.10				
Turbidity (NTU)	90.8	938	655	178				
Dissolved Oxygen (mg/L)	6.81	6.32	6.19	6.16				

Sampling Data

Sampled By: JW	Sampling Time: 1108	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Odor / Sheen

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-16	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.30		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 14.7	1 casing volume (CV=LWC*C)(gals): 2.35	3 casing volumes 3*CV)(gals): 7.05	5 casing volumes (5*CV)(gals): 11.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28	7.92				
Time (military)	1412	1415	1418	1421				
PH (s.u.)	5.75	5.60	5.70	5.76				
Specific Conductivity (µS/cm)	0.056	0.077	0.091	0.091				
Water Temperature (°C)	21.73	20.70	20.65	20.59				
Turbidity (NTU)	787	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	7.27	7.51	7.61	7.77				

Sampling Data

Sampled By: JW	Sampling Time: 1423	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/17	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-17	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.36		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 14.64	1 casing volume (CV=LWC*C)(gals): 2.34	3 casing volumes 3*CV)(gals): 7.02	5 casing volumes (5*CV)(gals): 11.70

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	2.64	4.95					
Time (military)	1445	1449	1453					
PH (s.u.)	4.81	4.75	4.73					
Specific Conductivity (µS/cm)	0.025	0.021	0.020					
Water Temperature (°C)	18.98	19.39	19.26					
Turbidity (NTU)	621	1000+	1000+					
Dissolved Oxygen (mg/L)	8.03	8.73	9.07					

Sampling Data

Sampled By: KP	Sampling Time: 1455	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-16-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-18	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.37		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 14.63	1 casing volume (CV=LWC*C)(gals): 2.34	3 casing volumes 3*CV)(gals): 7.02	5 casing volumes (5*CV)(gals): 11.70

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	2.64	4.95	7.92				
Time (military)	1512	1518	1522	1526				
PH (s.u.)	4.17	4.29	4.36	4.36				
Specific Conductivity (µS/cm)	0.134	0.410	0.421	0.419				
Water Temperature (°C)	20.02	19.12	18.93	18.84				
Turbidity (NTU)	944	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	~~22.25~~	10.50	9.72	9.75				

Sampling Data

Sampled By: JW	Sampling Time: 1527	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-19	Well Diameter (ft.): 0.16	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.): 15 to 35	Total Well Depth (TWD) (ft.): 35'
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.94		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 16.06	1 casing volume (CV=LWC*C)(gals): 2.56	3 casing volumes 3*CV)(gals): 7.68	5 casing volumes (5*CV)(gals): 12.8

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28	7.92				
Time (military)	1116	1118	1120	1123				
PH (s.u.)	5.46	5.48	5.29	5.20				
Specific Conductivity (µS/cm)	0.126	0.022	0.050	0.044				
Water Temperature (°C)	18.96	18.85	18.66	18.35				
Turbidity (NTU)	~~4.75~~ 96.6	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	4.75	4.87	4.70	4.77				

Sampling Data

Sampled By: JW	Sampling Time: 1124	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-21	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.60		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 13.4	1 casing volume (CV=LWC*C)(gals): 2.14	3 casing volumes 3*CV)(gals): 6.42	5 casing volumes (5*CV)(gals): 10.7

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.31	4.62	6.93				
Time (military)	1550	1553	1557	1602				
PH (s.u.)	7.20	5.30	5.01	5.05				
Specific Conductivity (µS/cm)	0.023	0.021	0.020	0.023				
Water Temperature (°C)	19.29	19.35	19.19	19.15				
Turbidity (NTU)	1000+	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	8.21	8.23	8.26	8.27				

Sampling Data

Sampled By: JW	Sampling Time: 1603	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-16-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW-22	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.66		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 15.34	1 casing volume (CV=LWC*C)(gals): 2.45	3 casing volumes 3*CV)(gals): 7.35	5 casing volumes (5*CV)(gals): 12.25

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.53	2.64	5.28	7.92				
Time (military)	1353	1356	1357				1403	
PH (s.u.)	5.49	5.64	DRY @				5.63	
Specific Conductivity (µS/cm)	0.073	0.068	3.3				0.068	
Water Temperature (°C)	19.50	20.30					20.57	
Turbidity (NTU)	1000+	1000+					1000+	
Dissolved Oxygen (mg/L)	7.47	9.73					8.32	

Sampling Data

Sampled By: JW	Sampling Time: 1401	Duplicate (Y) or N	If yes, Duplicate Time: 1402

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- MW23	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 13.76		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 16.24	1 casing volume (CV=LWC*C)(gals): 2.59	3 casing volumes 3*CV)(gals): 7.77	5 casing volumes (5*CV)(gals): 12.95

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.64	5.28					
Time (military)	1359							1405
PH (s.u.)	6.06	Dry @						6.07
Specific Conductivity (µS/cm)	0.032	2.31 Gal						0.039
Water Temperature (°C)	19.68							19.58
Turbidity (NTU)	301							1000+
Dissolved Oxygen (mg/L)	5.60							5.14

Sampling Data

Sampled By: JW	Sampling Time: 1404	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-24	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.78	Free Product Thickness (ft.): —	
Length of water column (LWC=TWD-DGW)(ft.): 16.22	1 casing volume (CV=LWC*C)(gals): 2.60	3 casing volumes 3*CV)(gals): 7.8	5 casing volumes (5*CV)(gals): 13

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.33	2.97	5.61	8.25				
Time (military)	1303	1310	1313				1316	
PH (s.u.)	4.53	4.50	Dry @				4.75	
Specific Conductivity (µS/cm)	0.243	0.045	5.25	6al.			0.027	
Water Temperature (°C)	19.28	19.72					19.78	
Turbidity (NTU)	325	1000+					113	
Dissolved Oxygen (mg/L)	7.91	8.49					8.17	

Sampling Data

Sampled By: KP	Sampling Time: 1315	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Ken Pinkerton

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-MW-25	Well Diameter (ft.): 0.16	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 17.14		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 12.86	1 casing volume (CV=LWC*C)(gals): 2.0	3 casing volumes 3*CV)(gals): 6	5 casing volumes (5*CV)(gals): 10

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	2.0	4.0	6.0				
Time (military)	1205	1209	1213	1215				
PH (s.u.)	5.12	5.29	5.35	5.33				
Specific Conductivity (µS/cm)	0.188	0.163	0.147	0.140				
Water Temperature (°C)	19.38	19.58	19.26	19.25				
Turbidity (NTU)	494	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	6.52	5.37	5.24	5.25				

Sampling Data

Sampled By: JW	Sampling Time: 1216	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562- RW-1	Well Diameter (ft.): 0.652	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 X RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.55		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 19.45	1 casing volume (CV=LWC*C)(gals): 12.68	3 casing volumes 3*CV)(gals): 38.04	5 casing volumes (5*CV)(gals): 63.4

Purging Data

	Initial	1st Vol. 38	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	13.01	25.88	38.75				
Time (military)	1150	1205	1215	1226				
PH (s.u.)	7.09	7.09	6.98	6.96				
Specific Conductivity (µS/cm)	0.472	0.541	0.532	0.521				
Water Temperature (°C)	19.32	20.05	20.47	20.42				
Turbidity (NTU)	513	465	832	1000+				
Dissolved Oxygen (mg/L)	5.78	5.58	8.60	6.35				

Sampling Data

Sampled By: JW	Sampling Time: 1227	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Odor - Sheen

Signature:

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-RW-2	Well Diameter (ft.): 0.652	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 X RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 15 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.): 15.20	Depth to Groundwater (DGW) (ft.): 15.22		Free Product Thickness (ft.): 0.02
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		No Sample 0.02' FP						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: 0.02' FP Gauged

Signature: [signature]

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11-19-18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Partly cloudy	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: ✓ or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: ✓ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-VMW-1	Well Diameter (ft.): 0.16	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 VMW ___Private WSW ___Public WSW	Screened Interval (ft.): 55 to 60	Total Well Depth (TWD) (ft.): 60	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.92	Free Product Thickness (ft.):	
Length of water column (LWC=TWD-DGW)(ft.): 44.08	1 casing volume (CV=LWC*C)(gals): 7.0	3 casing volumes 3*CV)(gals): 21	5 casing volumes (5*CV)(gals): 35

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.33	7.26	14.52					
Time (military)	1149	1201					1205	
PH (s.u.)	7.15	7.37					7.77	
Specific Conductivity (µS/cm)	0.373	0.443	Bailed				0.444	
Water Temperature (°C)	18.69	18.61	VOA @	8:58			18.99	
Turbidity (NTU)	60	60.6					88.0	
Dissolved Oxygen (mg/L)	5.87	5.72					5.78	

Sampling Data

Sampled By: JW	Sampling Time: 1204	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/16/18	Site ID #: 08562	Site Name: Rhodes Service Station	Field Personnel: KP & JW
County: Spartanburg	Project Manager: Quincy Hoffer	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name Horbia U52	Serial #: TDKGTPH	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 08562-VMW-2	Well Diameter (ft.): 0.16	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 VMW ___Private WSW ___Public WSW	Screened Interval (ft.): 36 to 41	Total Well Depth (TWD) (ft.): 41	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):	
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)		Not Located						
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Under a shed or buried under gravel/stone when property installed driveway.

Signature:

APPENDIX B

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Blue Ridge Environmental Services
2315 Kings Road Ext.
Shelby, NC 28152
Attention: Cliff Lundgren

Project Name: Rhodes Service Station

Project Number: 08562

Lot Number:**TK21014**

Date Completed:11/29/2018

11/30/2018 11:41 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Blue Ridge Environmental Services
Lot Number: TK21014

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.

EDB & DBCP

The sample results for -001, -002, -003, -004, and -011 have a P qualifier because the relative percent difference (RPD) between the two dissimilar phase GC columns exceeds 40%. The lower results are reported for these samples. The higher result for samples -001, -002, -003, -004, and -011 were 2.2, 2.2, 0.10, 250, and 61 ug/L, respectively.

The RPD for EDB exceeded method control limits in the MS/MSD associated with sample -023; however, the MS/MSD recoveries for these compounds were within acceptance limits. The LCS was recovered within the required acceptance limits. The associated sample results were reported and no corrective action was required.

Samples -004 and -011 were diluted 500X and 100X, respectively, due to high concentrations of the target compound. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5X and greater impact recovery accuracy.

Sample Summary
Blue Ridge Environmental Services
Lot Number: TK21014

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	08562-MW-1	Aqueous	11/19/2018 1118	11/20/2018
002	08562-MW-1 Duplicate	Aqueous	11/19/2018 1119	11/20/2018
003	08562-MW-3	Aqueous	11/16/2018 1542	11/20/2018
004	08562-MW-5	Aqueous	11/19/2018 1135	11/20/2018
005	08562-MW-6	Aqueous	11/16/2018 1340	11/20/2018
006	08562-MW-8	Aqueous	11/19/2018 1327	11/20/2018
007	08562-MW-9R	Aqueous	11/16/2018 1107	11/20/2018
008	08562-MW-11	Aqueous	11/19/2018 1352	11/20/2018
009	08562-MW-12	Aqueous	11/19/2018 1340	11/20/2018
010	08562-MW-14R	Aqueous	11/16/2018 1147	11/20/2018
011	08562-MW-15	Aqueous	11/19/2018 1108	11/20/2018
012	08562-MW-16	Aqueous	11/16/2018 1423	11/20/2018
013	08562-MW-17	Aqueous	11/16/2018 1455	11/20/2018
014	08562-MW-18	Aqueous	11/16/2018 1527	11/20/2018
015	08562-MW-19	Aqueous	11/16/2018 1124	11/20/2018
016	08562-MW-21	Aqueous	11/19/2018 1603	11/20/2018
017	08562-MW-22	Aqueous	11/16/2018 1401	11/20/2018
018	08562-MW-22 Duplicate	Aqueous	11/16/2018 1402	11/20/2018
019	08562-MW-23	Aqueous	11/19/2018 1404	11/20/2018
020	08562-MW-24	Aqueous	11/16/2018 1315	11/20/2018
021	08562-MW-25	Aqueous	11/16/2018 1216	11/20/2018
022	08562-RW-1	Aqueous	11/19/2018 1227	11/20/2018
023	08562-VMW-1	Aqueous	11/19/2018 1204	11/20/2018
024	08562-Field Blank1	Aqueous	11/16/2018 1605	11/20/2018
025	08562-Field Blank2	Aqueous	11/19/2018 1411	11/20/2018
026	08562-Trip Blank	Aqueous	11/19/2018	11/20/2018

(26 samples)

Detection Summary
Blue Ridge Environmental Services
Lot Number: TK21014

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	08562-MW-1	Aqueous	tert-Amyl alcohol (TAA)	8260B	220	J	ug/L	6
001	08562-MW-1	Aqueous	Benzene	8260B	270		ug/L	6
001	08562-MW-1	Aqueous	Ethylbenzene	8260B	2200		ug/L	6
001	08562-MW-1	Aqueous	Naphthalene	8260B	780		ug/L	6
001	08562-MW-1	Aqueous	Toluene	8260B	8200		ug/L	6
001	08562-MW-1	Aqueous	Xylenes (total)	8260B	13000		ug/L	6
001	08562-MW-1	Aqueous	1,2-Dibromoethane (EDB)	8011	2.2	P	ug/L	6
002	08562-MW-1 Duplicate	Aqueous	tert-Amyl alcohol (TAA)	8260B	230	J	ug/L	7
002	08562-MW-1 Duplicate	Aqueous	Benzene	8260B	300		ug/L	7
002	08562-MW-1 Duplicate	Aqueous	Ethylbenzene	8260B	2500		ug/L	7
002	08562-MW-1 Duplicate	Aqueous	Naphthalene	8260B	870		ug/L	7
002	08562-MW-1 Duplicate	Aqueous	Toluene	8260B	8100		ug/L	7
002	08562-MW-1 Duplicate	Aqueous	Xylenes (total)	8260B	12000		ug/L	7
002	08562-MW-1 Duplicate	Aqueous	1,2-Dibromoethane (EDB)	8011	2.2	P	ug/L	7
003	08562-MW-3	Aqueous	Ethylbenzene	8260B	3200		ug/L	8
003	08562-MW-3	Aqueous	Naphthalene	8260B	690		ug/L	8
003	08562-MW-3	Aqueous	Toluene	8260B	300		ug/L	8
003	08562-MW-3	Aqueous	Xylenes (total)	8260B	11000		ug/L	8
003	08562-MW-3	Aqueous	1,2-Dibromoethane (EDB)	8011	0.048	P	ug/L	8
004	08562-MW-5	Aqueous	Benzene	8260B	8400		ug/L	9
004	08562-MW-5	Aqueous	Ethylbenzene	8260B	2800		ug/L	9
004	08562-MW-5	Aqueous	Naphthalene	8260B	610		ug/L	9
004	08562-MW-5	Aqueous	Toluene	8260B	37000		ug/L	9
004	08562-MW-5	Aqueous	Xylenes (total)	8260B	17000		ug/L	9
004	08562-MW-5	Aqueous	1,2-Dibromoethane (EDB)	8011	130	P	ug/L	9
006	08562-MW-8	Aqueous	Toluene	8260B	13		ug/L	11
009	08562-MW-12	Aqueous	tert-Amyl alcohol (TAA)	8260B	130		ug/L	14
009	08562-MW-12	Aqueous	Benzene	8260B	150		ug/L	14
009	08562-MW-12	Aqueous	1,2-Dichloroethane	8260B	10		ug/L	14
009	08562-MW-12	Aqueous	Diisopropyl ether (IPE)	8260B	5.6		ug/L	14
009	08562-MW-12	Aqueous	Ethylbenzene	8260B	4.0		ug/L	14
009	08562-MW-12	Aqueous	Methyl tertiary butyl ether	8260B	1.4		ug/L	14
009	08562-MW-12	Aqueous	Naphthalene	8260B	6.8		ug/L	14
009	08562-MW-12	Aqueous	tert-butyl alcohol (TBA)	8260B	160		ug/L	14
009	08562-MW-12	Aqueous	Toluene	8260B	40		ug/L	14
009	08562-MW-12	Aqueous	Xylenes (total)	8260B	0.51	J	ug/L	14
011	08562-MW-15	Aqueous	Benzene	8260B	2600		ug/L	16
011	08562-MW-15	Aqueous	Ethylbenzene	8260B	2500		ug/L	16
011	08562-MW-15	Aqueous	Naphthalene	8260B	650		ug/L	16
011	08562-MW-15	Aqueous	Toluene	8260B	22000		ug/L	16
011	08562-MW-15	Aqueous	Xylenes (total)	8260B	14000		ug/L	16
011	08562-MW-15	Aqueous	1,2-Dibromoethane (EDB)	8011	32	P	ug/L	16
022	08562-RW-1	Aqueous	Benzene	8260B	89	J	ug/L	27
022	08562-RW-1	Aqueous	Ethylbenzene	8260B	2600		ug/L	27
022	08562-RW-1	Aqueous	Naphthalene	8260B	590		ug/L	27

Detection Summary (Continued)

Lot Number: TK21014

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
022	08562-RW-1	Aqueous	Toluene	8260B	9000		ug/L	27
022	08562-RW-1	Aqueous	Xylenes (total)	8260B	14000		ug/L	27
022	08562-RW-1	Aqueous	1,2-Dibromoethane (EDB)	8011	0.12		ug/L	27
023	08562-VMW-1	Aqueous	Benzene	8260B	1.4		ug/L	28
023	08562-VMW-1	Aqueous	Toluene	8260B	0.64	J	ug/L	28
023	08562-VMW-1	Aqueous	Xylenes (total)	8260B	1.0		ug/L	28

(51 detections)

Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-001**

Description: **08562-MW-1** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1118**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	11/25/2018 2255	KGT		90458
2	5030B	8260B	100	11/27/2018 0400	MNS		90583

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**220**	**J**	**400**	**160**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	8.4	ug/L	1
Benzene	**71-43-2**	**8260B**	**270**		**20**	**8.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	8.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		20	8.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		400	160	ug/L	1
Ethanol	64-17-5	8260B	ND		2000	800	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2200**		**20**	**8.0**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**780**		**20**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**8200**		**100**	**40**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**13000**		**100**	**40**	**ug/L**	**2**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
1,2-Dichloroethane-d4		88	70-130		94	70-130
Bromofluorobenzene		89	70-130		90	70-130
Toluene-d8		93	70-130		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	5	11/23/2018 1330	SCD	11/21/2018 1642	90288

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**2.2**	**P**	**0.10**	**0.025**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-002**

Description: **08562-MW-1 Duplicate** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1119**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	11/25/2018 2317	KGT		90458
2	5030B	8260B	100	11/27/2018 0720	MNS		90586

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**230**	**J**	**400**	**160**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	8.4	ug/L	1
Benzene	**71-43-2**	**8260B**	**300**		**20**	**8.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	8.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		20	8.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		400	160	ug/L	1
Ethanol	64-17-5	8260B	ND		2000	800	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2500**		**20**	**8.0**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**870**		**20**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**8100**		**100**	**40**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**12000**		**100**	**40**	**ug/L**	**2**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
1,2-Dichloroethane-d4		88	70-130		97	70-130
Bromofluorobenzene		87	70-130		98	70-130
Toluene-d8		92	70-130		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	5	11/23/2018 1341	SCD	11/21/2018 1642	90288

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**2.2**	**P**	**0.10**	**0.025**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits
1,1,1,2-Tetrachloroethane		119	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-003**

Description: **08562-MW-3** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1542**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	11/25/2018 2339	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	84	ug/L	1
Benzene	71-43-2	8260B	ND		200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	8000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3200**		**200**	**80**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		200	80	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**690**		**200**	**80**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	**108-88-3**	**8260B**	**300**		**200**	**80**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**11000**		**200**	**80**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1038	SCD	11/21/2018 1642	90288

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.048**	**P**	**0.020**	**0.0050**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-004**

Description: **08562-MW-5** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1135**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	11/26/2018 0001	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	210	ug/L	1
Benzene	**71-43-2**	**8260B**	**8400**		**500**	**200**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		500	200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		500	200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	4000	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	20000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2800**		**500**	**200**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	200	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**610**		**500**	**200**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	4000	ug/L	1
Toluene	**108-88-3**	**8260B**	**37000**		**500**	**200**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**17000**		**500**	**200**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	500	11/24/2018 1350	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**130**	**P**	**10**	**2.5**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-005**

Description: **08562-MW-6** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1340**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 1828	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1657	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		60	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-006**

Description: **08562-MW-8** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1327**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 1850	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	**108-88-3**	**8260B**	**13**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1708	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		66	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-007**

Description: **08562-MW-9R** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1107**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 1912	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1718	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		60	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-008**

Description: **08562-MW-11** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1352**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 1937	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1729	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		59	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-009**

Description: **08562-MW-12** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1340**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 1959	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**130**		**20**	**8.0**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	**71-43-2**	**8260B**	**150**		**1.0**	**0.40**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**10**		**1.0**	**0.40**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**5.6**		**1.0**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**4.0**		**1.0**	**0.40**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1.4**		**1.0**	**0.40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**6.8**		**1.0**	**0.40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**160**		**20**	**8.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**40**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**0.51**	**J**	**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1739	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		69	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-010**

Description: **08562-MW-14R** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1147**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2021	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1750	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		65	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-011**

Description: **08562-MW-15** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1108**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	11/26/2018 0023	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	210	ug/L	1
Benzene	**71-43-2**	**8260B**	**2600**		**500**	**200**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		500	200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		500	200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	4000	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	20000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2500**		**500**	**200**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	200	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**650**		**500**	**200**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	4000	ug/L	1
Toluene	**108-88-3**	**8260B**	**22000**		**500**	**200**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**14000**		**500**	**200**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	100	11/24/2018 1401	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**32**	**P**	**2.0**	**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-012**

Description: **08562-MW-16** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1423**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2043	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1811	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0051	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		65	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-013**

Description: **08562-MW-17** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1455**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2105	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1822	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0051	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		66	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-014**

Description: **08562-MW-18** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1527**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2127	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1833	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		67	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-015**

Description: **08562-MW-19** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1124**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2149	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1843	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		72	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-016**

Description: **08562-MW-21** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1603**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2211	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1854	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		70	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-017**

Description: **08562-MW-22** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1401**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/25/2018 2233	KGT		90458

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1905	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		70	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-018**

Description: **08562-MW-22 Duplicate** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1402**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1608	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1916	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0051	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		70	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-019**

Description: **08562-MW-23** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1404**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1630	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1926	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		70	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-020**

Description: **08562-MW-24** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1315**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1652	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1937	DAL1	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		65	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-021**

Description: **08562-MW-25** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1216**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1714	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1948	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		68	57-137

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

Client: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-022**

Description: **08562-RW-1** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1227**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	11/26/2018 1758	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	42	ug/L	1
Benzene	**71-43-2**	**8260B**	**89**	**J**	**100**	**40**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	4000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2600**		**100**	**40**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**590**		**100**	**40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	**108-88-3**	**8260B**	**9000**		**100**	**40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**14000**		**100**	**40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 1959	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.12**		**0.020**	**0.0049**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		70	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-023**

Description: **08562-VMW-1** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1204**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1736	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	**71-43-2**	**8260B**	**1.4**		**1.0**	**0.40**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.64**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1.0**		**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 2010	SCD	11/21/2018 2135	90323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0051	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		66	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-024**

Description: **08562-Field Blank1** Matrix: **Aqueous**

Date Sampled: **11/16/2018 1605**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1121	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 2114	SCD	11/21/2018 2135	90324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-025**

Description: **08562-Field Blank2** Matrix: **Aqueous**

Date Sampled: **11/19/2018 1411**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1143	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/23/2018 2125	SCD	11/21/2018 2135	90324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		67	57-137

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: **Blue Ridge Environmental Services** Laboratory ID: **TK21014-026**

Description: **08562-Trip Blank** Matrix: **Aqueous**

Date Sampled: **11/19/2018**

Date Received: **11/20/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/26/2018 1205	BWS		90497

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
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
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		91	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: TQ90458-001
Batch: 90458
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/25/2018 1701
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/25/2018 1701
Benzene	ND		1	1.0	0.40	ug/L	11/25/2018 1701
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/25/2018 1701
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	11/25/2018 1701
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/25/2018 1701
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/25/2018 1701
Ethanol	ND		1	100	40	ug/L	11/25/2018 1701
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/25/2018 1701
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/25/2018 1701
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/25/2018 1701
Naphthalene	ND		1	1.0	0.40	ug/L	11/25/2018 1701
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/25/2018 1701
Toluene	ND		1	1.0	0.40	ug/L	11/25/2018 1701
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/25/2018 1701

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		91	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ90458-002
Batch: 90458
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	101	70-130	11/25/2018 1617
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	11/25/2018 1617
Benzene	50	48		1	96	70-130	11/25/2018 1617
tert-Butyl formate (TBF)	250	270		1	108	70-130	11/25/2018 1617
1,2-Dichloroethane	50	51		1	101	70-130	11/25/2018 1617
Diisopropyl ether (IPE)	50	52		1	104	70-130	11/25/2018 1617
3,3-Dimethyl-1-butanol	1000	1000		1	103	70-130	11/25/2018 1617
Ethanol	5000	5100		1	101	70-130	11/25/2018 1617
Ethylbenzene	50	50		1	99	70-130	11/25/2018 1617
Ethyl-tert-butyl ether (ETBE)	50	50		1	101	70-130	11/25/2018 1617
Methyl tertiary butyl ether (MTBE)	50	49		1	98	70-130	11/25/2018 1617

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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: TQ90458-002
Batch: 90458
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	52		1	104	70-130	11/25/2018 1617
tert-butyl alcohol (TBA)	1000	990		1	99	70-130	11/25/2018 1617
Toluene	50	49		1	98	70-130	11/25/2018 1617
Xylenes (total)	100	96		1	96	70-130	11/25/2018 1617

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		94	70-130

Volatile Organic Compounds by GC/MS - MS

Sample ID: TK21014-003MS
Batch: 90458
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	200000	230000		200	113	70-130	11/26/2018 0045
tert-Amyl methyl ether (TAME)	ND	10000	11000		200	112	70-130	11/26/2018 0045
Benzene	ND	10000	11000		200	109	70-130	11/26/2018 0045
tert-Butyl formate (TBF)	ND	50000	53000		200	106	70-130	11/26/2018 0045
1,2-Dichloroethane	ND	10000	11000		200	111	70-130	11/26/2018 0045
Diisopropyl ether (IPE)	ND	10000	11000		200	115	70-130	11/26/2018 0045
3,3-Dimethyl-1-butanol	ND	200000	240000		200	118	70-130	11/26/2018 0045
Ethanol	ND	1000000	1100000		200	110	70-130	11/26/2018 0045
Ethylbenzene	3200	10000	14000		200	112	70-130	11/26/2018 0045
Ethyl-tert-butyl ether (ETBE)	ND	10000	11000		200	109	70-130	11/26/2018 0045
Methyl tertiary butyl ether (MTBE)	ND	10000	11000		200	106	70-130	11/26/2018 0045
Naphthalene	690	10000	12000		200	113	70-130	11/26/2018 0045
tert-butyl alcohol (TBA)	ND	200000	220000		200	109	70-130	11/26/2018 0045
Toluene	300	10000	11000		200	111	70-130	11/26/2018 0045
Xylenes (total)	11000	20000	33000		200	106	70-130	11/26/2018 0045

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK21014-003MD
Batch: 90458
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	200000	230000		200	114	1.2	70-130	20	11/26/2018 0106
tert-Amyl methyl ether (TAME)	ND	10000	11000		200	112	0.56	70-130	20	11/26/2018 0106
Benzene	ND	10000	11000		200	110	1.3	70-130	20	11/26/2018 0106
tert-Butyl formate (TBF)	ND	50000	54000		200	108	1.8	70-130	20	11/26/2018 0106
1,2-Dichloroethane	ND	10000	11000		200	113	1.2	70-130	20	11/26/2018 0106
Diisopropyl ether (IPE)	ND	10000	12000		200	115	0.39	70-130	20	11/26/2018 0106
3,3-Dimethyl-1-butanol	ND	200000	230000		200	117	0.90	70-130	20	11/26/2018 0106
Ethanol	ND	1000000	1100000		200	114	3.5	70-130	20	11/26/2018 0106
Ethylbenzene	3200	10000	14000		200	112	0.46	70-130	20	11/26/2018 0106
Ethyl-tert-butyl ether (ETBE)	ND	10000	11000		200	111	1.4	70-130	20	11/26/2018 0106
Methyl tertiary butyl ether (MTBE)	ND	10000	11000		200	109	2.8	70-130	20	11/26/2018 0106
Naphthalene	690	10000	12000		200	113	0.14	70-130	20	11/26/2018 0106
tert-butyl alcohol (TBA)	ND	200000	220000		200	111	1.6	70-130	20	11/26/2018 0106
Toluene	300	10000	12000		200	112	1.1	70-130	20	11/26/2018 0106
Xylenes (total)	11000	20000	33000		200	107	0.81	70-130	20	11/26/2018 0106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		92	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ90497-001
Batch: 90497
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/26/2018 1020
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/26/2018 1020
Benzene	ND		1	1.0	0.40	ug/L	11/26/2018 1020
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/26/2018 1020
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	11/26/2018 1020
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/26/2018 1020
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/26/2018 1020
Ethanol	ND		1	100	40	ug/L	11/26/2018 1020
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/26/2018 1020
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/26/2018 1020
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/26/2018 1020

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ90497-001
Batch: 90497
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Naphthalene	ND		1	1.0	0.40	ug/L	11/26/2018 1020
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/26/2018 1020
Toluene	ND		1	1.0	0.40	ug/L	11/26/2018 1020
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/26/2018 1020

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		90	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ90497-002
Batch: 90497
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	980		1	98	70-130	11/26/2018 0924
tert-Amyl methyl ether (TAME)	50	49		1	98	70-130	11/26/2018 0924
Benzene	50	47		1	94	70-130	11/26/2018 0924
tert-Butyl formate (TBF)	250	250		1	102	70-130	11/26/2018 0924
1,2-Dichloroethane	50	50		1	100	70-130	11/26/2018 0924
Diisopropyl ether (IPE)	50	51		1	102	70-130	11/26/2018 0924
3,3-Dimethyl-1-butanol	1000	990		1	99	70-130	11/26/2018 0924
Ethanol	5000	5100		1	103	70-130	11/26/2018 0924
Ethylbenzene	50	48		1	97	70-130	11/26/2018 0924
Ethyl-tert-butyl ether (ETBE)	50	49		1	98	70-130	11/26/2018 0924
Methyl tertiary butyl ether (MTBE)	50	47		1	95	70-130	11/26/2018 0924
Naphthalene	50	50		1	100	70-130	11/26/2018 0924
tert-butyl alcohol (TBA)	1000	980		1	98	70-130	11/26/2018 0924
Toluene	50	48		1	96	70-130	11/26/2018 0924
Xylenes (total)	100	94		1	94	70-130	11/26/2018 0924

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: TK21014-022MS
Batch: 90497
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	100000	110000		100	112	70-130	11/26/2018 1820
tert-Amyl methyl ether (TAME)	ND	5000	5700		100	114	70-130	11/26/2018 1820
Benzene	89	5000	5700		100	112	70-130	11/26/2018 1820
tert-Butyl formate (TBF)	ND	25000	25000		100	102	70-130	11/26/2018 1820
1,2-Dichloroethane	ND	5000	5800		100	116	70-130	11/26/2018 1820
Diisopropyl ether (IPE)	ND	5000	6000		100	119	70-130	11/26/2018 1820
3,3-Dimethyl-1-butanol	ND	100000	120000		100	118	70-130	11/26/2018 1820
Ethanol	ND	500000	540000		100	108	70-130	11/26/2018 1820
Ethylbenzene	2600	5000	8300		100	113	70-130	11/26/2018 1820
Ethyl-tert-butyl ether (ETBE)	ND	5000	5700		100	113	70-130	11/26/2018 1820
Methyl tertiary butyl ether (MTBE)	ND	5000	5500		100	110	70-130	11/26/2018 1820
Naphthalene	590	5000	6400		100	116	70-130	11/26/2018 1820
tert-butyl alcohol (TBA)	ND	100000	110000		100	110	70-130	11/26/2018 1820
Toluene	9000	5000	15000		100	116	70-130	11/26/2018 1820
Xylenes (total)	14000	10000	25000		100	108	70-130	11/26/2018 1820

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		92	70-130

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK21014-022MD
Batch: 90497
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	100000	110000		100	107	4.4	70-130	20	11/26/2018 1842
tert-Amyl methyl ether (TAME)	ND	5000	5300		100	105	7.7	70-130	20	11/26/2018 1842
Benzene	89	5000	5300		100	104	6.9	70-130	20	11/26/2018 1842
tert-Butyl formate (TBF)	ND	25000	23000		100	93	8.3	70-130	20	11/26/2018 1842
1,2-Dichloroethane	ND	5000	5400		100	107	7.4	70-130	20	11/26/2018 1842
Diisopropyl ether (IPE)	ND	5000	5500		100	110	7.7	70-130	20	11/26/2018 1842
3,3-Dimethyl-1-butanol	ND	100000	110000		100	108	8.9	70-130	20	11/26/2018 1842
Ethanol	ND	500000	520000		100	105	3.5	70-130	20	11/26/2018 1842
Ethylbenzene	2600	5000	7900		100	106	4.4	70-130	20	11/26/2018 1842
Ethyl-tert-butyl ether (ETBE)	ND	5000	5200		100	105	7.6	70-130	20	11/26/2018 1842
Methyl tertiary butyl ether (MTBE)	ND	5000	5100		100	102	7.4	70-130	20	11/26/2018 1842

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK21014-022MD
Batch: 90497
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Naphthalene	590	5000	5900		100	106	7.9	70-130	20	11/26/2018 1842
tert-butyl alcohol (TBA)	ND	100000	110000		100	106	3.9	70-130	20	11/26/2018 1842
Toluene	9000	5000	14000		100	101	5.5	70-130	20	11/26/2018 1842
Xylenes (total)	14000	10000	24000		100	101	3.2	70-130	20	11/26/2018 1842

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		91	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ90583-001
Batch: 90583
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Toluene	ND		1	1.0	0.40	ug/L	11/26/2018 2043
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/26/2018 2043

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ90583-002
Batch: 90583
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	46		1	93	70-130	11/26/2018 2000
Xylenes (total)	100	91		1	91	70-130	11/26/2018 2000

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ90583-002
Batch: 90583
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		92	70-130

Volatile Organic Compounds by GC/MS - MS

Sample ID: TK21014-001MS
Batch: 90583
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	8200	5000	14000		100	112	70-130	11/27/2018 0446
Xylenes (total)	13000	10000	24000		100	107	70-130	11/27/2018 0446

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		91	70-130

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK21014-001MD
Batch: 90583
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Toluene	8200	5000	14000		100	108	1.7	70-130	20	11/27/2018 0508
Xylenes (total)	13000	10000	23000		100	104	1.4	70-130	20	11/27/2018 0508

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ90586-001
Batch: 90586
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Toluene	ND		1	1.0	0.40	ug/L	11/26/2018 2232
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/26/2018 2232

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ90586-002
Batch: 90586
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	47		1	95	70-130	11/26/2018 2140
Xylenes (total)	100	91		1	91	70-130	11/26/2018 2140

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS - MS

Sample ID: TK21014-002MS
Batch: 90586
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	8100	5000	13000		100	105	70-130	11/27/2018 0745
Xylenes (total)	12000	10000	23000		100	107	70-130	11/27/2018 0745

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: TK21014-002MS
Batch: 90586
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK21014-002MD
Batch: 90586
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Toluene	8100	5000	13000		100	93	4.5	70-130	20	11/27/2018 0811
Xylenes (total)	12000	10000	22000		100	94	5.7	70-130	20	11/27/2018 0811

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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: TQ90288-001
Batch: 90288
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 1642

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	11/23/2018 0657

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		77	57-137

EDB & DBCP by Microextraction - LCS

Sample ID: TQ90288-002
Batch: 90288
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 1642

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.18		1	71	60-140	11/23/2018 0708

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		76	57-137

EDB & DBCP by Microextraction - MS

Sample ID: TK21014-003MS
Batch: 90288
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 1642

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.048	0.25	0.26		1	84	60-140	11/23/2018 1049

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		78	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MSD

Sample ID: TK21014-003MD
Batch: 90288
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 1642

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.048	0.25	0.28		1	91	7.8	60-140	20	11/23/2018 1059

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		78	57-137

EDB & DBCP by Microextraction - MB

Sample ID: TQ90323-001
Batch: 90323
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 2135

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	11/23/2018 1625

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		77	57-137

EDB & DBCP by Microextraction - LCS

Sample ID: TQ90323-002
Batch: 90323
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 2135

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.16		1	64	60-140	11/23/2018 1636

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		68	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MS

Sample ID: TK21014-023MS
Batch: 90323
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 2135

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.15	P	1	62	60-140	11/23/2018 2020

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		63	57-137

EDB & DBCP by Microextraction - MSD

Sample ID: TK21014-023MD
Batch: 90323
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 2135

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.20	+	1	77	24	60-140	20	11/23/2018 2031

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		65	57-137

EDB & DBCP by Microextraction - MB

Sample ID: TQ90324-001
Batch: 90324
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 2135

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	11/23/2018 2053

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		72	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - LCS

Sample ID: TQ90324-002
Batch: 90324
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/21/2018 2135

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.17		1	69	60-140	11/23/2018 2103

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		72	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody
and
Miscellaneous Documents

Blue Ridge Environmental Services, Inc.

CHAIN OF CUSTODY

South Carolina Page 1 of 2

2515 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
FAX 704-482-4835
E-mail: BRESI@BlueRidge-ESI.com

TK21014

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #: 08562

SITE CODE:

P.O.#: 17-6023.3

LAB: Shealy

SAMPLERS: JW & KP

PROJECT MANAGER: Jeff White

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	8260B - BTEX, N.M., OXY, 1,2 DCA, EDB	8011 - EDB	Sample Pickup				REMARKS
08562-MW-1	11-19-18	1118		X	Groundwater Sample	HCL	5	X	X	X				
08562-MW-1 Duplicate	11-19-18	1119		X				X	X					Duplicate
08562-MW-3	11-16-18	1542		X				X	X					
08562-MW-5	11-19-18	1135		X				X	X					
08562-MW-6	11-16-18	1340		X				X	X					
08562-MW-8	11-19-18	1327		X				X	X					
08562-MW-9R	11-16-18	1107		X				X	X					
08562-MW-11	11-19-18	1352		X				X	X					
08562-MW-12	11-19-18	1340		X				X	X					
08562-MW-14R	11-16-18	1147		X				X	X					
08562-MW-15	11-19-18	1108		X				X	X					
08562-MW-16	11-16-18	1423		X				X	X					
08562-MW-17	11-16-18	1455		X				X	X					T = 1.8°C
08562-MW-18	11-16-18	1527		X				X	X					

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
[signature]	11/20/18	1100	[signature]	11/20/18	1100
[signature]	11/20/18	1640	[signature]	11-20-18	1640

Blue Ridge Environmental Services, Inc.

CHAIN OF CUSTODY

South Carolina Page 2 of 2

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
FAX 704-482-4335
E-mail: BRESI@BlueRidge-ESI.com

TK21014

PROJECT NAME/LOCATION: Rhodes Service Station

STF CODE:

P.O.#: 17-6023.3

LAB: Shealy

GROUNDWATER INCIDENT #: 08562

SAMPLERS: JW & KP

PROJECT MANAGER: Jeff White

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	8260B-BTEX, MM, OXY, 12 OXA, EPA 601	8011-EDB					REMARKS
08562-MW-19	11-16-18	1124		X	Groundwater Sample	HCL	5	X	X					
08562-MW-21	11-19-18	1603		X				X	X					
08562-MW-22	11-16-18	1401		X				X	X					
08562-MW 22 Duplicate	11-16-18	1402		X				X	X					Duplicate
08562-MW23	11-19-18	1404		X				X	X					
08562-MW24	11-16-18	1315		X				X	X					
08562-MW25	11-16-18	1216		X				X	X					
08562-RW-1	11-19-18	1227		X				X	X					
08562-VMW-1	11-19-18	1204		X				X	X					
08562-Field Blank 1	11-16-18	1605		X	Field Blank			X	X					
08562-Field Blank 2	11-19-18	1411		X	Field Blank			X	X					
08562-Trip Blank	11-19-18	—		X	Trip Blank		2	X						
														T=1.8°C

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
[signature]	11/20/18	1100	Mark Kautscher	11/20/18	1100
Mark Kautscher	11/20/18	1440	[signature]	11-20-18	1646

Shealy Environmental Services, Inc.
Document Number: MB0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: Blue Ridge Cooler Inspected by/date: GC 11/21/18 Lot #: TK21019

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other:			
☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: ___ Chlorine Strip ID: ___ Tested by: ___			
Original temperature upon receipt / Derived (Corrected) temperature upon receipt: %Solid Snap-Cup ID: ___			
1.8 / 1.8 °C ___ / ___ °C ___ / ___ °C ___ / ___ °C			
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C			
Method of coolant: ☐ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None			
☐ Yes	☐ No	☑ NA	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	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? ___
☑ Yes	☐ No		13. Was adequate sample volume available?
☐ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # ___

GW 11/21/18

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 ___ mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # ___.
Time of preservation ___. If more than one preservative is needed, please note in the comments below.

Sample(s) ___ were received with bubbles >6 mm in diameter.

Samples(s) ___ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: ___.

SR barcode labels applied by: ___ Date: ___

Comments:

APPENDIX C

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. CBSQG

AEO

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT

Blue Ridge Environmental Services, Inc.

Carrier No.

Page 1 of 1

(Name of carrier) (SCAC)

Date 12/03/18

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: Advanced Environmental Options, Inc.

Consignee

25 Stan Perkins Road (864)488-9111

Street

Spartanburg, SC 29307

City State Zip Code

FROM: Blue Ridge Environmental, Inc.

Shipper

2915 Kings Road Ext.

Street

Shelby, NC 28150

City State Zip Code

(704)482-2111

24 hr. Emergency Contact Tel. No.

Emergency Phone & Contact: David W. Hitchens with AEO @ 864-488-9111 or 864-590-4646 (Cell)

Route

Vehicle Number AEO

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 DM		Non-DOT/NON-RCRA Regulated Materials (Contains Diesel fuel and Water) (PROF013404)	58 G			
		Rhodes Service Station, 410 Spartanburg Hwy. South, Wellford, SC UST Permit # 08552; CA# 58131				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS Advanced Environmental Options, Inc. (AEO) 25 Stan Perkins Road, Spartanburg, SC 29307

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

PER [signature]

CARRIER ~~Advanced Environmental Options, Inc. (AEO)~~ Blue Ridge Environmental

PER [signature]

DATE 12/3/18

1

Permanent post-office address of shipper.

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

APPENDIX D

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
SC Contractor # 0095
BRESI@BlueRidge-ESI.com

Rhodes Service Station (Former)
UST Permit Number: 08562

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

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

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Shelby, North Carolina 28152
(O) 704.482.2111
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SC Contractor # 0095
BRESI@BlueRidge-ESI.com

Rhodes Service Station
UST Permit Number: 08562

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		

Explanation for missing and incomplete information?

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
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SC Contractor # 0095
Email: BRESI@BlueRidge-ESI.com

Explanation for missing and incomplete information

- Please note monitoring wells 08562-MW-2, 08562-MW-10, 08562-MW-13 and 08562-VMW-2 were unable to be located during this assessment. Blue Ridge personnel made an effort to locate the wells with a metal detector, but where unsuccessful in finding them. Therefore, no samples were collected.
- Monitoring well 08562-MW-4 (0.01') and recovery well 08562-RW-2 (0.02') contained FPP, therefore no samples were obtained.
- No samples were collected from monitoring wells 08562-MW-7 and 08562-MW-20 because the wells appear to have been destroyed due to previous construction activities.
- Monitoring wells 08562-MW-11 and 08562-MW-12 were missing the top of the manhole lid as well as the expandable well cap when located during this sampling event.

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
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SC Contractor # 0095
Email: BRESI@BlueRidge-ESI.com

1. Monitoring Well 08562-MW-11 in the road median located with missing manhole lid and well cap.

2. Monitoring Well 08565-MW-12 in the road median located with missing manhole lid and well cap.

dhec
Healthy People. Healthy Communities.

MAR 0 2 2020

ODOM OIL COMPANY
PO BOX 1291
SPARTANBURG SC 29304-1291

Re: **Site Specific Work Plan (SSWP) Request**
Former Rhodes Service Station, 410 Spartanburg Highway South, Lyman, SC
UST Permit #08562
Release Reported January 24, 1990
Monitoring Report Received December 31, 2018
Spartanburg County

To Whom It May Concern:

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 Blue Ridge Environmental Services Inc., as your contractor. The next appropriate scope of work at the site is the reinstallation of MW-10 and MW-13 and an Aggressive Fluid Vapor Recovery (AFVR) event.

Monitoring wells MW-10 and MW-13 will need to be reinstalled to their original dimensions. After completion of well installation activities, one 96-hr AFVR event should be conducted at the site on RW-1, RW-2, and MW-4. All well installation and AFVR activities at the site should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 3.1 and must be conducted in compliance with all applicable regulations. A copy of the Agency QAPP Revision 3.1 for the UST Management Division is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Proposal within thirty (30) 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 preapproval from the Agency must be issued before work begins.**

On all correspondence concerning this site, please reference **UST Permit #08562.** If there are any questions concerning this project, please contact me at (803) 898-0655 or by email at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

cc: Jeff White, Blue Ridge Environmental Services, Inc., 2315 Kings Road Ext., Shelby, NC 28152
Technical File

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 3-19-2020

Permit Number 08562

Project Manager Quincy Hoffer

Name of Contractor Blue Ridge Env Serv Inc

UST Certification Number SSWP

Docket Number 28tech

Scanned _____

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Quincy Hoffer (SCDHEC Project Manager)
From: Ken Pimienta (Contractor Project Manager)
Contractor: Blue Ridge Env. Serv., Inc. UST Contractor Certification Number: 0095

Facility Name: Former Rhodes Service Station UST Permit #: 08562
Facility Address: 410 Spartanburg Highway South, Welford, SC 29365
Responsible Party: Odom Oil Company (Mr. Robert Turner) Phone: _____
RP Address: P.O. Box 1291 Spartanburg Highway, Spartanburg SC 29304-1291
Property Owner (if different): KAVYA2015 INC
Property Owner Address: _____
Current Use of Property: Petroleum Station / Subway

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☑ Monitoring Well Installation
- ☐ Groundwater Sampling
- ☑ Other 96 - Hour AFVR Event
- ☐ GAC

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

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ PAH
- ☐ Lead
- ☐ 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 _____ Water Supply Wells _____ Air _____ Field Blank
_____ Monitoring Wells _____ Surface Water _____ Duplicate _____ 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: 2 Estimated Footage: 30 & 35 feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:
The newly installed monitoring wells will replace MW-10 and MW-13 and will be designated 08562-MW-10R and 08562-MW-13R.

UST Permit #: 08562 Facility Name: Former Rhodes Service Station

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Days Field Work Completion: 35 Days
Report Submittal: 60 Days # 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: 4 Tons Purge Water: 20 purge development 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
After completion of well installation activities, one 96-Hr AFVR event will be conducted on 08562-RW-1, RW-2 and MW-4.

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: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

No 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Healthy People. Healthy Communities.

Facility Name: **Former Rhodes Service Station**

UST Permit #: 08562 **Cost Agreement #:**

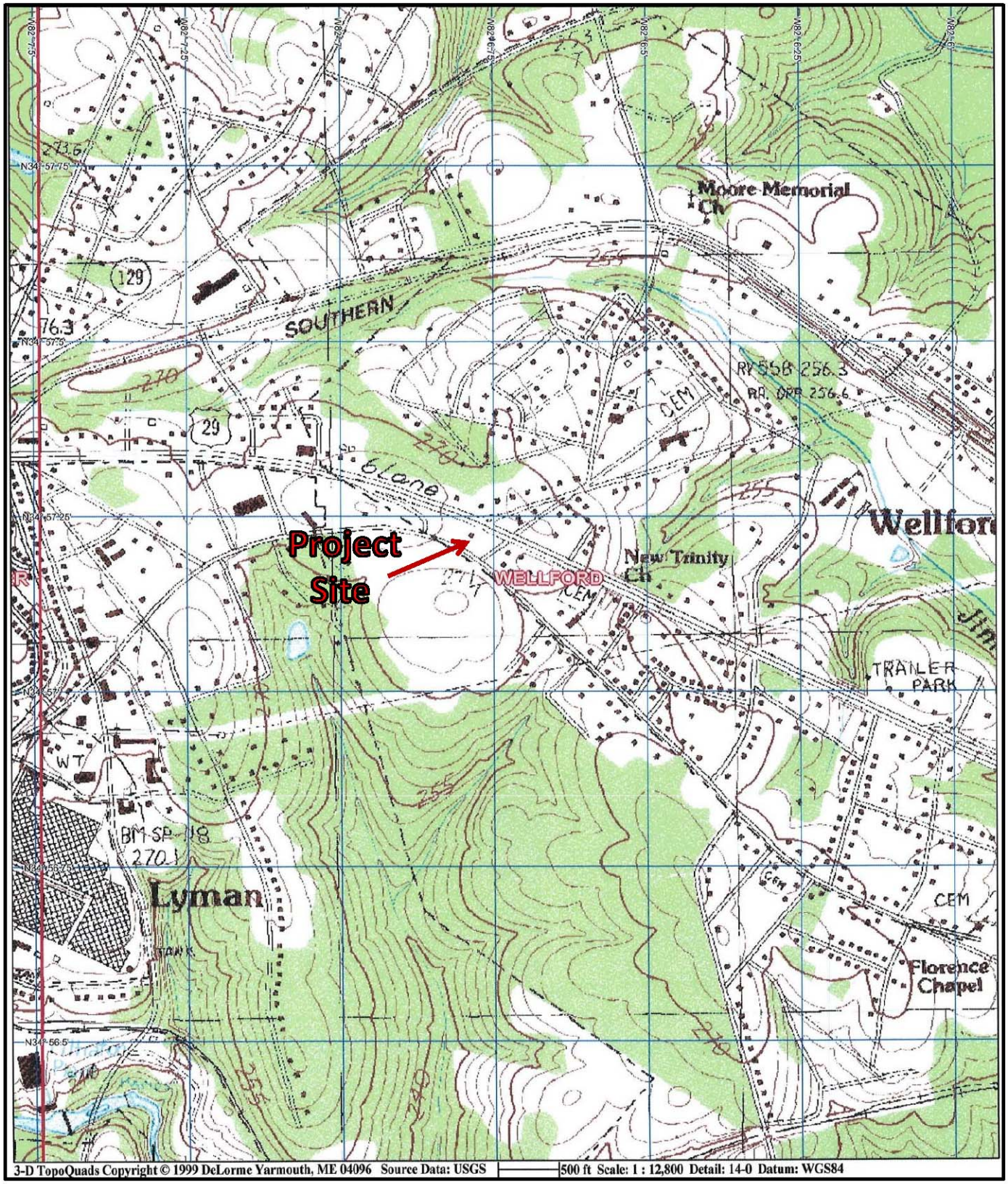
ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1. Site-specific Work Plan	1	each	$160.05		$160.05
2. Tax Map		each	$74.69		$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00		$0.00
B. **Receptor Survey ***		each	$587.92		$0.00
C. **Survey (500 ft x 500 ft)**					
1. Comprehensive Survey		each	$1,109.68		$0.00
Subsurface Geophysical Survey					
2. < 10 meters below grade		each	$1,387.10		$0.00
3. > 10 meters below grade		each	$2,464.77		$0.00
4. Geophysical UST or Drum Survey		each	$970.97		$0.00
D. **Mob/Demob**					
1. Equipment	1	each	$1,088.34		$1,088.34
2. Personnel	3	each	$451.34		$1,354.02
3. Adverse Terrain Vehicle		each	$533.50		$0.00
E.. **Soil Borings (hand auger)***		foot	$5.34		$0.00
F. **Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***					
1. Standard		per foot	$16.01		$0.00
2. Fractured Rock		per foot	$21.55		$0.00
G. **Soil Leachability Model**		each	$64.02		$0.00
H. **Abandonment (per foot)***					
1. 2" diameter or less		per foot	$3.31		$0.00
2. Greater than 2" to 6" diameter		per foot	$4.80		$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	$16.00		$0.00
I. **Well Installation (per foot)***					
1. Water Table (hand augered)		per foot	$11.31		$0.00
2. Water Table (drill rig) 2" Diameter	65	per foot	$40.55		$2,635.75
3. Telescoping		per foot	$53.35		$0.00
4. Rock Drilling		per foot	$61.89		$0.00
5. 2" Rock Coring		per foot	$32.97		$0.00
6. Rock Multi-sampling ports/screens		per foot	$35.64		$0.00
7. Recovery Well (4" diameter)		per foot	$48.02		$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	$16.01		$0.00
9. Rotosonic (2" diameter)		per foot	$46.95		$0.00
10. Re-develop Existing Well		per foot	$11.74		$0.00

J. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
1. Groundwater Purge		per well	$64.02		$0.00
2. Air or Vapors		sample	$12.80		$0.00
3. Water Supply Sample or Duplicate		sample	$23.47		$0.00
4. Groundwater No Purge or Duplicate or Grab		sample	$29.88		$0.00
5. Gauge Well only		sample	$7.47		$0.00
6. Sample Below Product		sample	$12.80		$0.00
7. Passive Diffusion Bag		sample	$27.74		$0.00
8. Field Blank		sample	$26.25		$0.00
9. Groundwater (low flow purge)		sample	$97.10		$0.00
10. Equipment Blank		sample	$26.25		$0.00
K. Laboratory Analyses-Groundwater					
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	$130.17		$0.00
2. Lead, Filtered		per sample	$14.72		$0.00
3. Rush EPA Method 8260B		per sample	$163.89		$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$29.88		$0.00
5. PAH's		per sample	$64.66		$0.00
6. Lead		per sample	$17.07		$0.00
7. EDB by EPA 8011		per sample	$48.23		$0.00
8. EDB by EPA Method 8011 Rush		per sample	$72.77		$0.00
9. 8 RCRA Metals		per sample	$67.65		$0.00
10. TPH (9070)		per sample	$43.75		$0.00
11. PH		per sample	$5.55		$0.00
12. BOD		per sample	$21.34		$0.00
13. Ethanol		per sample	$15.79		$0.00
K. Analyses-Drinking Water					
14. BTEXNM+1,2 DCA (524.2)		per sample	$132.36		$0.00
15. 7-OXYGENATES & ETHANOL (8260B)		per sample	$97.90		$0.00
16. EDB (504.1)		per sample	$84.83		$0.00
17. RCRA METALS (200.8)		per sample	$106.70		$0.00
K. **Analyses-Soil**					
18. BTEX + Naphth.		per sample	$68.29		$0.00
19. PAH's		per sample	$68.33		$0.00
20. 8 RCRA Metals		per sample	$60.18		$0.00
21. TPH-DRO (3550C/8015C)		per sample	$42.68		$0.00
22. TPH- GRO (5035B/8015C)		per sample	$38.37		$0.00
23. Grain size/hydrometer		per sample	$110.97		$0.00
24. Total Organic Carbon		per sample	$32.65		$0.00
K. **Analyses-Air**					
25. BTEX + Naphthalene		per sample	$230.47		$0.00
K. **Analyses-Free Phase Product**					
26. Hydrocarbon Fuel Identification		per sample	$380.92		$0.00
L. **Aquifer Characterization***					
1. Pumping Test		per hour	$24.54		$0.00
2. Slug Test		per test	$203.80		$0.00
3. Fractured Rock		per test	$106.70		$0.00

M. **Free Product Recovery Rate Test***		each	$40.55		$0.00
N. **Fate/Transport Modeling**					
1. Mathematical Model		each	$106.70		$0.00
2. Computer Model		each	$106.70		$0.00
O. **Risk Evaluation**					
1. Tier I Risk Evaluation		each	$320.10		$0.00
2. Tier II Risk Evaluation		each	$106.70		$0.00
P. **Subsequent Survey***		each	$260.00		$0.00
Q. **Disposal (gallons or tons)***					
1. Wastewater		gallon	$0.60		$0.00
2. Free Product		gallon	$0.53		$0.00
3. Soil Treatment/Disposal		ton	$64.02		$0.00
4. Drilling fluids		gallon	$0.45		$0.00
R. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
T. **Tier I Assessment (Use DHEC 3665 form)**					
1. Southeast Region		standard	$11,026.00		$0.00
2. All Other Counties		standard	$12,093.00		$0.00
U. IGWA (Use DHEC 3666 form)					
1. Southeast Region		standard	$3,803.00		$0.00
2. All Other Counties		standard	$4,123.00		$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00
W. **Aggressive Fluid & Vapor Recovery (AFVR)**					
1. 8-hour Event*		per event	$1,467.13		$0.00
2. 24-hour Event*		per event	$4,081.28		$0.00
3. 48-hour Event*		per event	$6,706.10		$0.00
4. 96-hour Event*	1	per event	$13,409.52		$13,409.52
5. Off-gas Treatment 8 hour		per event	$130.71		$0.00
6. Off-gas Treatment 24 hour		per event	$257.68		$0.00
7. Off-gas Treatment 48 hour		per event	$348.91		$0.00
8. Off-gas Treatment 96 hour		per event	$832.26		$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	$430.00		$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	$500.00		$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	$1,000.00		$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compo	1	per event	$2,000.00		$2,000.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	$0.50		$0.00
14. AFVR Site Reconnaissance		each	$216.87		$0.00
15. Additional Hook-ups		each	$27.48		$0.00
16. AFVR Effluent Disposal	20,000	gallon	$0.47		$9,400.00
17. AFVR Mobilization/Demobilization	1	each	$417.73		$417.73
X. **Granulated Activated Carbon (GAC) filter system installation & service:**					
1. New GAC System Installation*		each	$2,027.30		$0.00
2. Refurbished GAC Sys. Install*		each	$960.30		$0.00
3. Filter replacement/removal*		each	$373.45		$0.00
4. GAC System removal, cleaning, & refurbishment*		each	$293.43		$0.00
5. GAC System housing*		each	$266.75		$0.00

6. In-line particulate filter		each	$160.05		$0.00
7. Additional piping & fittings		foot	$1.60		$0.00
Y. **Well Repair**					
1. Additional Copies of the Report Delivered		each	$53.35		$0.00
2. Repair 2x2 MW pad*		each	$53.35		$0.00
3. Repair 4x4 MW pad*		each	$93.90		$0.00
4. Replace well vault*		each	$125.91		$0.00
5. Replace well cover bolts		each	$2.77		$0.00
6. Replace locking well cap & lock		each	$16.00		$0.00
7. Replace/Repair stick-up*		each	$142.98		$0.00
8. Convert Flush-mount to Stick-up*		each	$160.05		$0.00
9. Convert Stick-up to Flush-mount*		each	$138.71		$0.00
10. Replace missing/illegible well ID plate		each	$12.80		$0.00
S. Report Prep & Project Management	12%	percent	$30,465.41		$3,655.85
TOTAL					$34,121.26

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



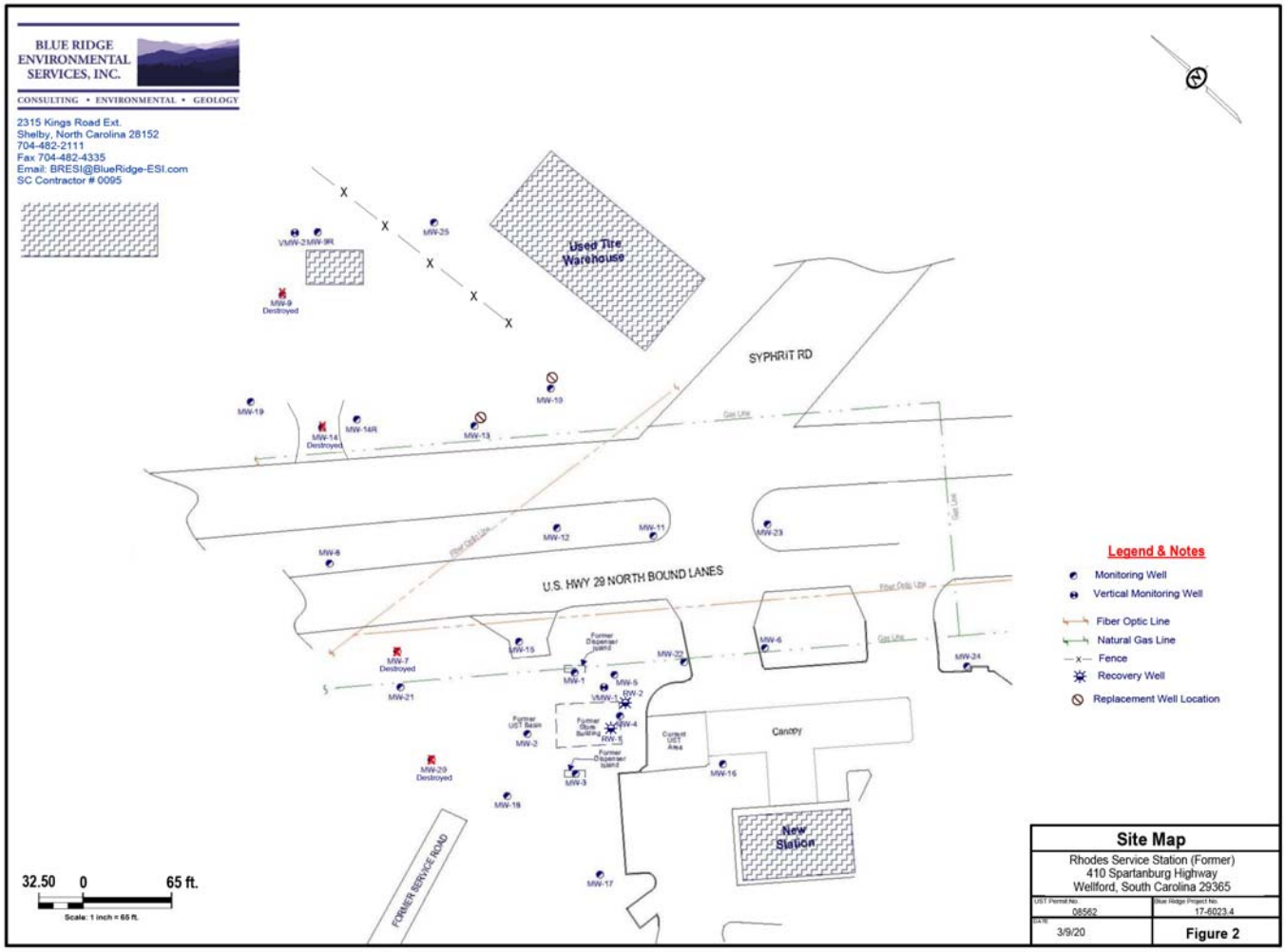
TOPOGRAPHIC MAP

0 1,111 ft.

North

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor: # 0095

Client:	Robert F. Turner
Project:	Rhodes Service Station (Former)
Location:	410 Spartanburg Highway South
	WellfordF1, South Carolina 29365
Blue Ridge Project #:	17-6023.4
Date: 3/9/20	Approximate Scale: 1" = 1,111' Figure 1


BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095
Used Tire Warehouse
SYPHRIT RD
U.S. HWY 29 NORTH BOUND LANES
Canopy
New Station
FORMER SERVICE ROAD
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7 Destroyed
MW-8
MW-9 Destroyed
MW-11
MW-12
MW-13
MW-14 Destroyed
MW-14R
MW-15
MW-16
MW-17
MW-18
MW-19
MW-21
MW-23
MW-24
MW-25
MW-29 Destroyed
VMW-1
VMW-2
MW-9R
RW-1
RW-2
RW-4
RW-5
Former Dispenser Island
Former UST Basin
Former Store Building
Current UST Area
Gas Line
Fiber Optic Line
32.50 0 65 ft.
Scale: 1 inch = 65 ft.
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
Recovery Well
Replacement Well Location
Site Map
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Blue Ridge Project No. 17-6023.4
DATE 3/9/20
Figure 2

dhec
Healthy People. Healthy Communities.

UST 29 DOCKETING

ODOM OIL COMPANY
PO BOX 1291
SPARTANBURG SC 29304-1291

APR 0 3 2020

Re: **Aggressive Fluid and Vapor Recovery Notice to Proceed**
Rhodes Service Station (Former), 410 Spartanburg Hwy. S., Wellford, SC
UST Permit #08562; CA #61426; UMW-27943
Release reported January 24, 1990
SSWP received March 17, 2020
Spartanburg County

To Whom It May Concern :

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your committment to continue work at this site using your DHEC UST Certified Contractor.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, monitoring well installation and an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). One 96-hour event utilizing monitoring wells RW-1, RW-2 and MW-4 should be performed. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 20 feet in the wells. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter, the stinger(s) should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the UST Division's QAPP is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below.

The AFVR Report should be submitted within 90 days from the date of this correspondence. 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.

Your contractor 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.

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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved 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.

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 QAPP. If CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, 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 concerning this site, please reference UST Permit #08562. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0655, by fax at (803) 898-0673, or by e-mail at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Blue Ridge Environmental Services Inc., 2315 Kings Rd. Ext., Shelby, NC 28152 (w/enc)
Technical file (w/enc)

dhec
Healthy People. Healthy Communities.

Monitoring Well Approval

Approval is hereby granted to: Blue Ridge Environmental Services, Inc.
(on behalf of): Odom Oil Company
Facility: Rhodes Service Station (Former), 410 Spartanburg Hwy., Wellford, SC
UST Permit Number: 08562
County: Spartanburg

This approval is for the installation of two 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 Quincy Hoffer the project manager (tel: (803) 898-0655 or e-mail: hofferqm@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: March 26, 2020 **Approval #: UMW-27943**

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 61426

Facility: 08562 RHODES SERVICE STATION
HOFFERQM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A	PLAN PREPARATION					
		1	SITE SPECIFIC WORK PLAN	1.0000	$160.050	160.05
D	MOB/DEMOB					
		1	EQUIPMENT	1.0000	$1,088.340	1,088.34
		2	PERSONNEL	3.0000	$451.340	1,354.02
I	WELL INSTALLATION					
		2	WATER TABLE DRILL RIG 2" DIA	65.0000	$40.550	2,635.75
S	REPORT PROJECT MANAGEMENT					
		S	REPORT PREP & PROJ. MANAGEMENT	0.1200	$29,514.540	3,541.74
W	AFVR					
		14	AFVR SITE RECONNAISSANCE	1.0000	$216.870	216.87
		16	AFVR EFFLUENT DISPOSAL	20,000.0000	$0.470	9,400.00
		17	AFVR MOB - DEMOB	1.0000	$417.730	417.73
		4	96 HOUR EVENT	1.0000	$13,409.520	13,409.52
		8	OFF GAS TREATMENT 96 HOUR	1.0000	$832.260	832.26
					Total Amount	33,056.28

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

UST
DEC 0 1 2009
PROGRAM

UST
DOCKET

November 24, 2009

Ms. Maia Milenkova
UST Program
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Rhodes Service Station (Revised)
410 Spartanburg Highway
Welford, SC 29365
UST Permit # 08562

Dear Ms. Milenkova:

The purpose of this correspondence is to present the results of two AFVR and one groundwater sampling event performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 36169. Two AFVR events were conducted on monitor wells MW-4 and MW-15 on August 24, 2009 and September 10, 2009, per a correspondence from your office dated July 22, 2009. The AFVR events were conducted by Advanced Environmental Options (AEO) under the direct supervision of Blue Ridge Environmental Services Inc.. AEO utilized a Hydro-Vac Series 2000 high vacuum positive displacement blower vacuum truck capable of a maximum of 800 CFM (640 CFM at 15 inches of mercury) and maximum of 27 inches of mercury.

On August 24, 2009 weather conditions were noted during the AFVR event and consisted of sunny sky's with a high of approximately 78° F. On September 10, 2009 weather conditions noted during the AFVR event consisted of cloudy skies and scattered storms with a high of approximately 61° F. The tables below provide the duration of the total volume of fluids recovered during the AFVR events, the total weight of free product recovered as vapor during the events and the amount of calculated gallons of fluids recovered.

Recycled Paper

Total Volume of Fluids Recovered AFVR #1
August 24, 2009

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
MW-4 MW-15	8/24/09	8	56	897	39.76

Total Volume of Fluids Recovered AFVR #2
September 10, 2009

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
MW-4 MW-15	9/10/09	8	54	866	39.62

Please refer to the appendixes for field data record tables, total emissions tables and copies of the disposal manifests from the AFVR events conducted. The following tables provide pre-recovery and post recovery depth to water and depth to product levels in specific on-site monitoring wells. The product/water levels were determined using an interface probe.

Pre/Post Event Water Levels AFVR #1
August 24, 2009

Well ID	Stinger Depth (ft)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (.ft)
MW-4	21	16.66	20.48	3.82	N/A	21.00	N/A
MW-15	20	17.62	19.36	1.74	N/A	19.88	N/A

• N/A: Not Applicable/No measurable readings.

Pre/Post Event Water Levels AFVR #2
September 10, 2009

Well ID	Stinger Depth (ft)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (.ft)
MW-4	20	18.45	18.63	.18	N/A	19.15	N/A
MW-15	19	17.94	18.21	.27	N/A	18.73	N/A

•N/A: Not Applicable/No measurable readings.

Please note that Post-Event Water Levels were taken approximately twenty minutes after each AFVR Event was completed. The location of all monitor wells is illustrated on Figure 2.

On September 15, 2009, Blue Ridge mobilized to the site for the purpose of sampling monitor wells MW-1 through MW-19, VMW-1, WSW-1, WSW-2 and Creek-1. Groundwater samples were obtained from MW-1, MW-2, MW-5, MW-6, MW-8, MW-10 through MW-12, MW-16, MW-17 and VMW-1. The samples were analyzed by Method 8260B for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates, Method 8011 for EDB and Method 7421 for lead. Please note that monitor wells MW-3, MW-7, MW-9, MW-13, MW-14, MW-18 and MW-19 could not be located and therefore no groundwater samples were collected from these locations on September 15, 2009. Monitor wells MW-7, MW-9 and MW-14 are suspected to be destroyed. In addition monitor wells MW-4 and MW-15 had a reported free phase product (FPP) thickness of .18 ft and .27 ft. respectively during the time of the September 15, 2009 sampling.

Water supply wells, WSW-1 and WSW-2, are no longer in service and residences associated with the wells are now connected to a public water supply. Water supply well WSW-1 is located approximately 1,114 feet south/southeast of the source area and WSW-2 is located approximately 1,170 feet south/southeast of the source area. An unnamed seasonal tributary of Jimmies Creek is located approximately 656 feet north of the source area and is approximately 380 feet from the leading edge of the contaminant plume. Jimmies Creek is part of the North Tyger River System. Surface water sample Creek-1 could not be obtained due to the seasonal tributary being dry at the time of the sampling. Please note that no alternative sample locations of the tributary were visible or assessable within 1,000 feet from Creek-1 sample location. The locations of WSW-1, WSW-1 and Creek-1 are illustrated on Figure 1.

On October 28, 2009, Blue Ridge mobilized to the site for the purpose of relocating and sampling monitor wells MW-3, MW-13, MW-18 and MW-19. Groundwater samples were collected from each of these locations and analyzed by Method 8260B for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates, Method 8011 for EDB and Method 7421 for lead. In addition, the FPP thickness in MW-4 and MW-15 was regauged. Monitor wells MW-4 and MW-15 had a reported free phase product (FPP) thickness of .05 ft and .19 ft.

respectively during the time of the October 28, 2009 sampling.

Static water levels recorded from the wells sampled on September 15, 2009 ranged between 17.22 feet @ MW-6 to 20.58 feet below grade level @ MW-8. Static water levels recorded from the monitor wells sampled on October 28, 2009 ranged between 18.11 feet @ MW-3 to 22.18 feet below grade level @ MW-19. Based on the current static water levels obtained during this assessment, the direction of groundwater flow was calculated primarily to the north, which is consistent with the historical groundwater flow direction. Please note that monitor wells MW-3, MW-13, MW-18 and MW-19 were not factored in groundwater flow calculations during this assessment. Refer to Table 1 - Relative Groundwater Elevations and Figure 3 - Groundwater Contour Map.

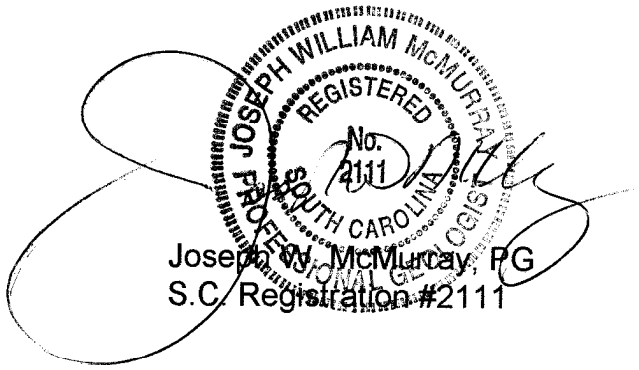
Please note that a significant amount of time has elapsed since the last sampling event occurred on June 20, 2002. The results of the sampling indicated that dissolved phase hydrocarbon contaminant levels are present onsite. Of the fifteen monitor wells sampled (MW-1 through MW-3, MW-5, MW-6, MW-8, MW-10 through MW-13, MW-16 through MW-19 and VMW-1) in association with the Rhodes Service Station site, thirteen monitoring wells (MW-1 through MW-3, MW-5, MW-6, MW-8, MW-10 through MW-13, MW-16 through MW-17 and VMW-1) had detectable concentrations of BTEX, MTBE, naphthalene EDB and lead constituents above RBSL's for one or more constituent. The highest COC's were reported in monitor well MW-5 with a total BTEX level of 97,300 ug/L, EDB at 500 ug/L and lead at 1.3 mg/L. Please note that one or more constituents of benzene, MTBE and 1, 2-dichlorethane in monitor wells MW-1, MW-3 and MW-5 were analyzed using detection limits higher than the RBSLs and therefore the results of those constituents should be inferred with caution. Refer to Table 2 for a summary of the analytical results at each location and Figure 4 - Contaminant Concentration Map. Field measurement data sheets are enclosed as Appendix E and a copy analytical report is included as Appendix F.

The locations of all monitor wells are illustrated on Figure 2. Based on the results of this assessment, the contaminate plume is undefined north/northeast of MW-13. Blue Ridge recommends field screening north/northeast of monitor well MW-13 to determine the most appropriate placement for additional monitor wells. In addition, Blue Ridge also recommends that monitor well MW-7 be reinstalled prior to the next sampling event to ensure contaminate plume remains defined northwest of the source area.

If you should have any questions regarding this correspondence, please contact me at (704) 482-2111.

Sincerely,
Blue Ridge Environmental Services, Inc.

Kenneth A. Pimienta
Geologist



Joseph W. McMurray, PG
S.C. Registration #2111

CC: Robert Turner

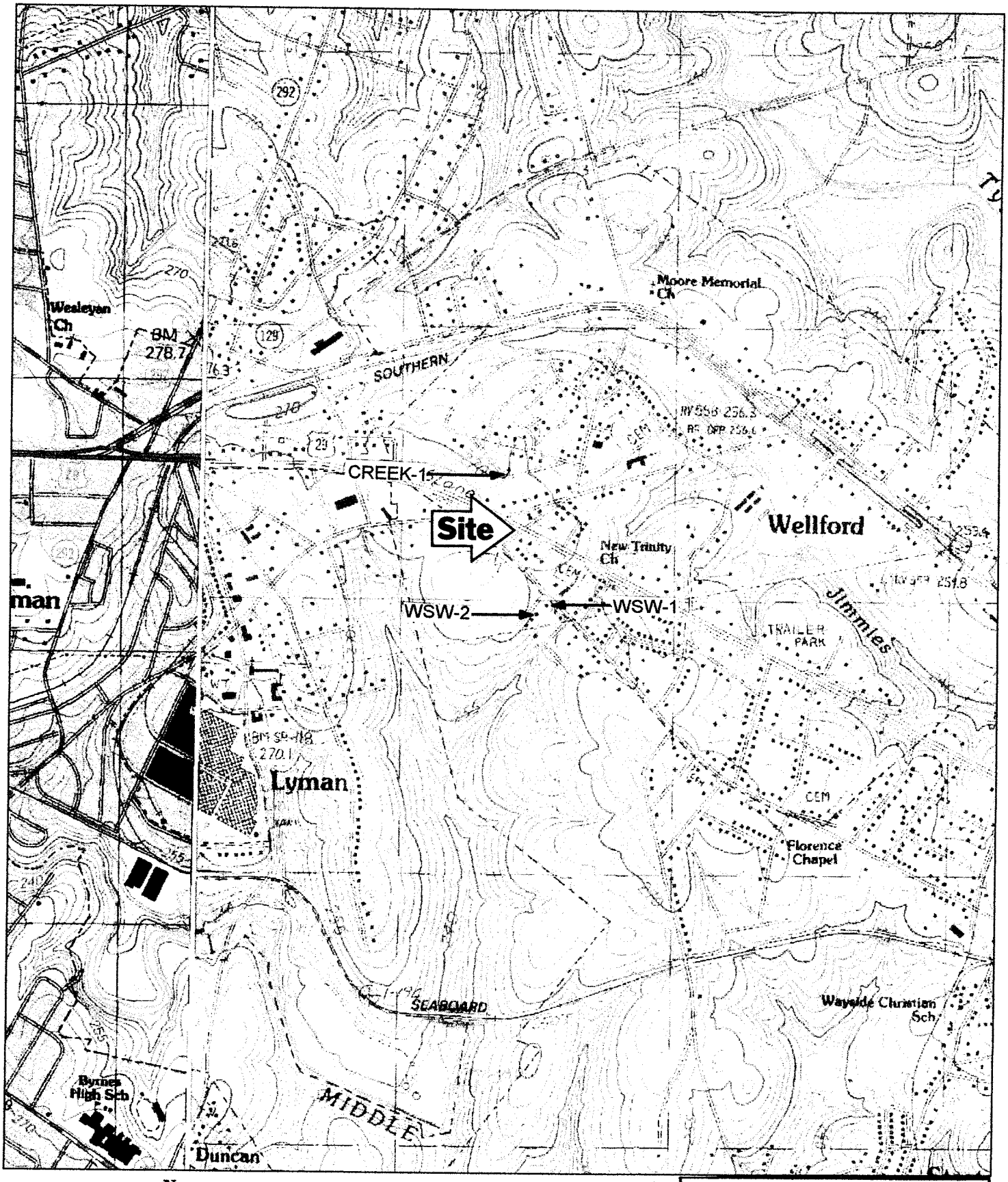
Enclosures

Figures
Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Groundwater Contour Map
Figure 4: Contaminant Concentration Map

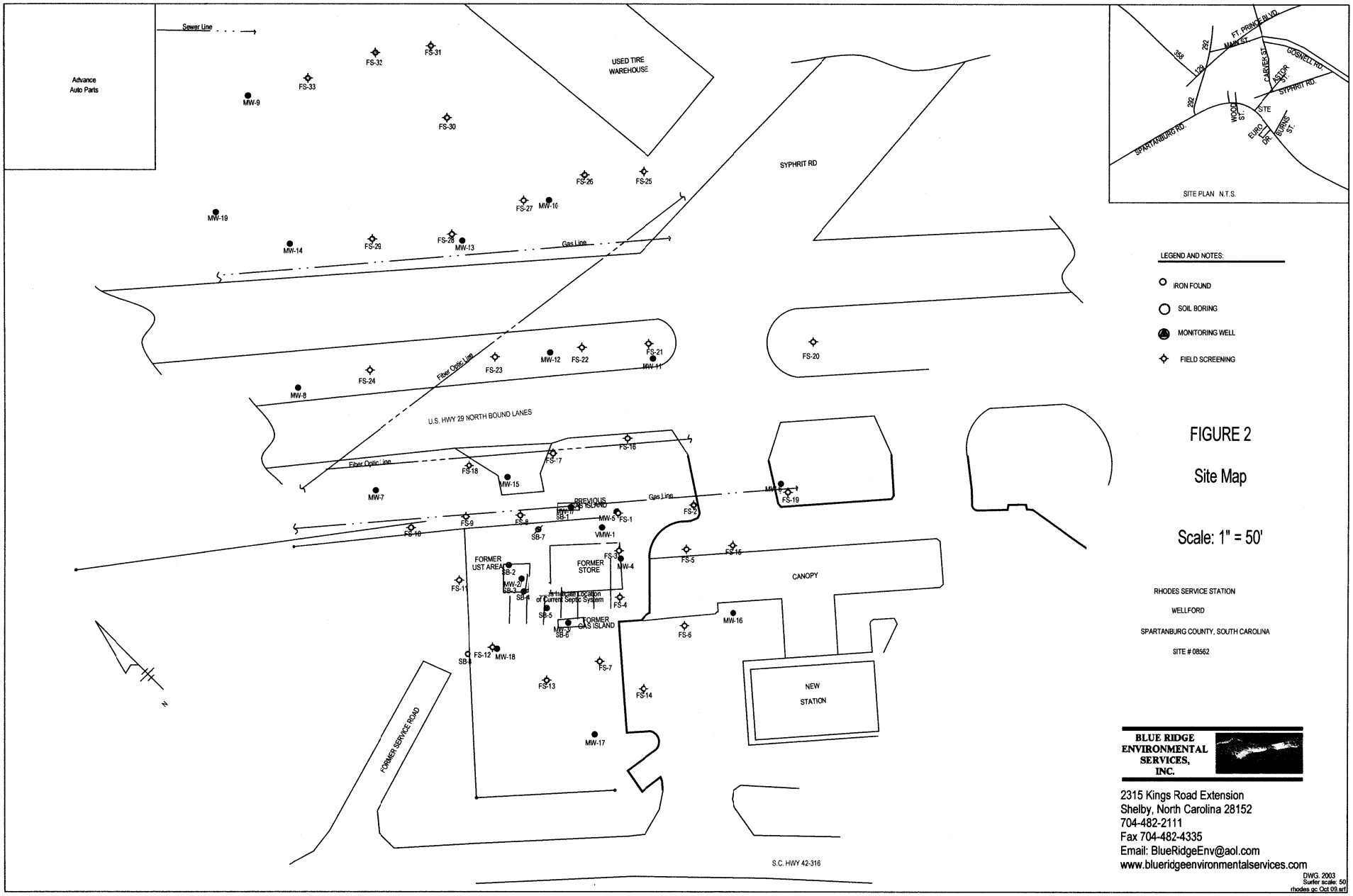
Tables
1. Relative Groundwater Elevations
2. Select Summary of Groundwater Laboratory Analytical Results
3. Select Summary of Oxygenates Analytical Results

Appendixes
A. Field Data Record Tables
B. Total Emissions Tables
C. Disposal Manifests (AFVR)
D. Disposal Manifest (Groundwater Sampling Event)
E. Field Data Sheets
F. Analytical Reports

FIGURES



Rhodes Service Station
Figure 1
Site Location Map



SITE PLAN N.T.S.

LEGEND AND NOTES:

- IRON FOUND
- SOIL BORING
- MONITORING WELL
- FIELD SCREENING

FIGURE 2

Site Map

Scale: 1" = 50'

RHODES SERVICE STATION

WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com
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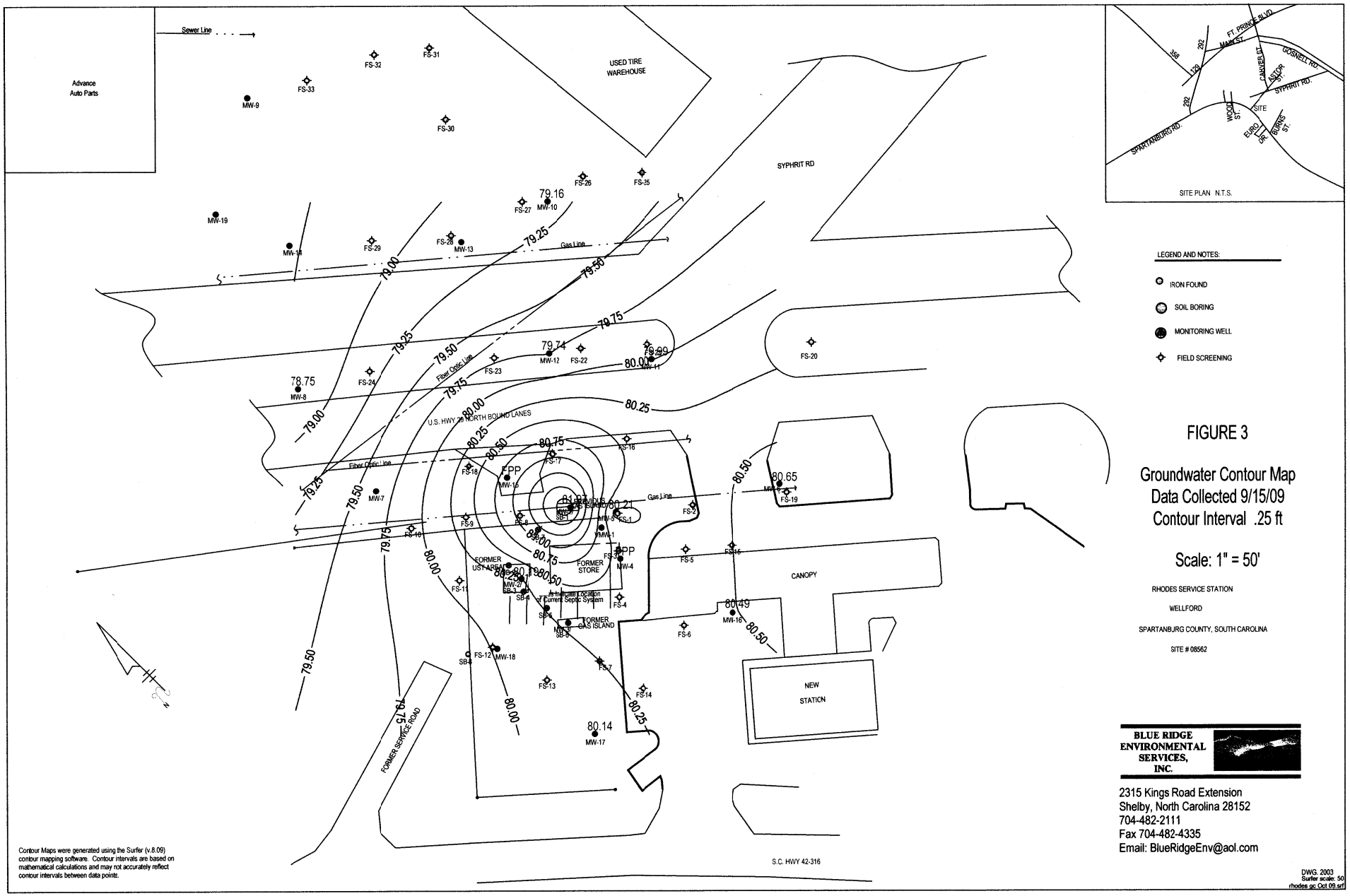
DWG. 2003
Surfer scale: 50
rhodes gc Oct 09.srf



SITE PLAN N.T.S.

LEGEND AND NOTES:

- IRON FOUND
- SOIL BORING
- MONITORING WELL
- FIELD SCREENING

FIGURE 3

Groundwater Contour Map
Data Collected 9/15/09
Contour Interval .25 ft

Scale: 1" = 50'

RHODES SERVICE STATION

WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

Contour Maps were generated using the Surfer (v.8.09) contour mapping software. Contour intervals are based on mathematical calculations and may not accurately reflect contour intervals between data points.

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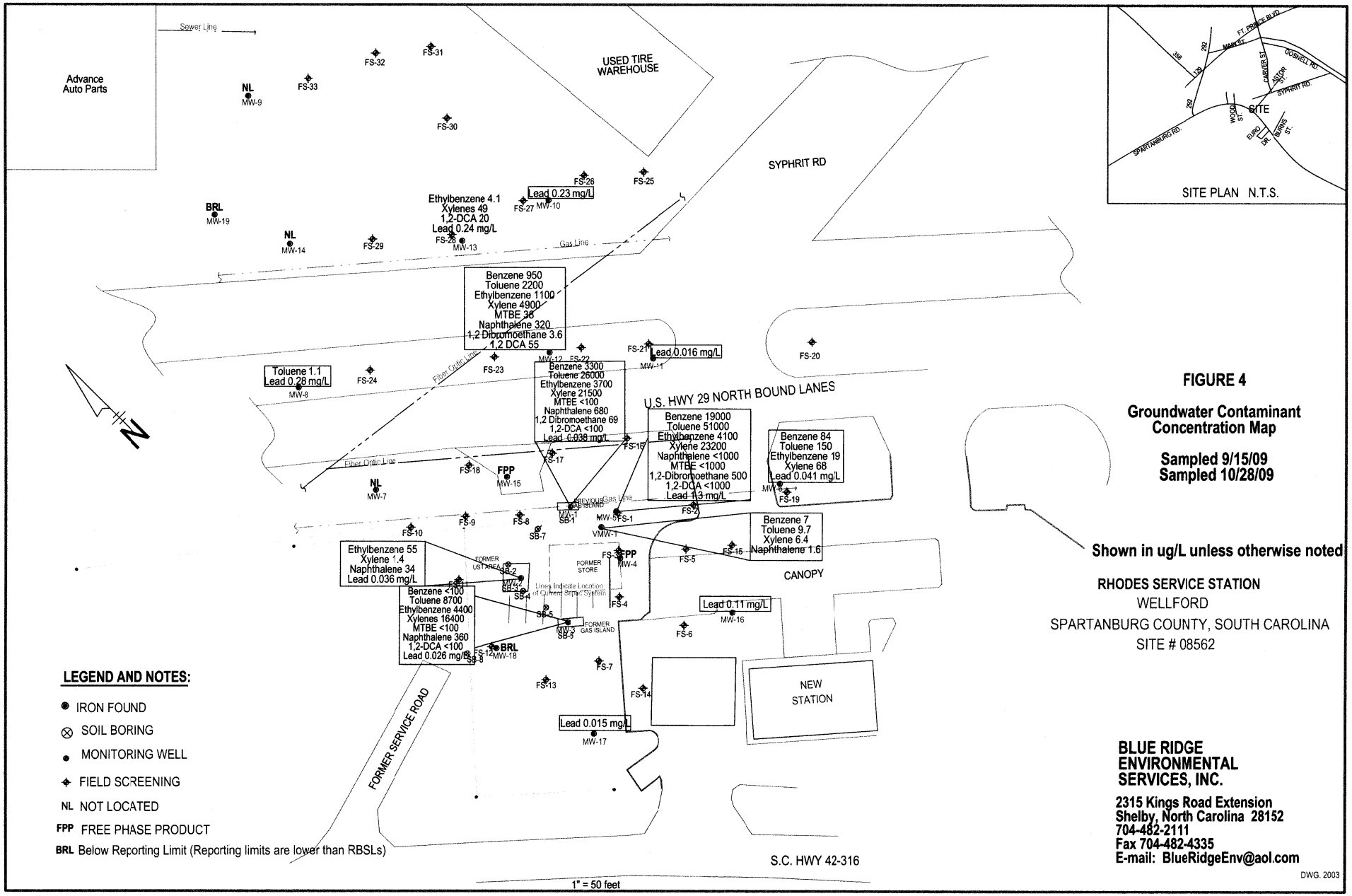
DWG. 2003
Surfer scale: 50
rhodes gc Oct 09.srf



LEGEND AND NOTES:

- IRON FOUND
- SOIL BORING
- MONITORING WELL
- FIELD SCREENING
- NL NOT LOCATED
- FPP FREE PHASE PRODUCT
- BRL Below Reporting Limit (Reporting limits are lower than RBSLs)

FIGURE 4

Groundwater Contaminant Concentration Map

Sampled 9/15/09
Sampled 10/28/09

Shown in ug/L unless otherwise noted

RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562

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DWG. 2003

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TABLES

TABLE 1
Relative Groundwater Elevations

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

		Date:	1/21/00	4/23/01	11/20/01	6/20/02	9/15/09
Well No.	**MW-1**	TD: 25'	Screen Interval: 15-25'				10/28/09*
TOC Elevation			100.00	100.00	100.00	100.00	100.00
Groundwater Level			17.91	17.49	19.41	18.12	18.03
Groundwater Elevation (ft.)			***82.09***	***82.51***	***80.59***	***81.88***	***81.97***
Well No.	**MW-2**	TD: 25'	Screen Interval: 15-25'				
TOC Elevation			99.04	99.04	99.04	99.04	99.04
Groundwater Level			18.02	17.92	20.03	18.82	18.85
Groundwater Elevation (ft.)			***81.020***	***81.120***	***79.01***	***80.22***	***80.19***
Well No.	**MW-3**	TD: 25'	Screen Interval: 15-25'				
TOC Elevation			99.57	99.57	99.57	99.57	99.57
Groundwater Level			17.45	18.16	19.77	18.09	18.11*
Groundwater Elevation (ft.)			***82.12***	***81.41***	***79.8***	***81.48***	***81.46***
Well No.	**MW-4**	TD: 30'	Screen Interval: 10-30'				
TOC Elevation				98.65	98.65	98.65	98.65
Groundwater Level				FPP	FPP	FPP	FPP
Groundwater Elevation (ft.)							
Well No.	**MW-5**	TD: 30'	Screen Interval: 10-30'				
TOC Elevation				97.85	97.85	97.85	97.85
Groundwater Level				17.2	19.12	17.84	17.64
Groundwater Elevation (ft.)				***80.65***	***78.73***	***80.01***	***80.21***
Well No.	**MW-6**	TD: 30'	Screen Interval: 10-30'				
TOC Elevation				97.87	97.87	97.87	97.87
Groundwater Level				16.93	18.82	17.59	17.22
Groundwater Elevation (ft.)				***80.94***	***79.05***	***80.28***	***80.65***
Well No.	**MW-7**	TD: 30'	Screen Interval: 10-30'				
TOC Elevation				97.26	97.26	97.26	97.26
Groundwater Level				17.86	19.5	18.18	NL
Groundwater Elevation (ft.)				***79.4***	***77.76***	***79.08***	NA
Well No.	**MW-8**	TD: 30'	Screen Interval: 10-30'				
TOC Elevation				99.33	99.33	99.33	99.33
Groundwater Level				20.92	22.1	19.72	20.58
Groundwater Elevation (ft.)				***78.41***	***77.23***	***79.61***	***78.75***
Well No.	**MW-9**	TD: 35'	Screen Interval: 10-30'				
TOC Elevation				98.7	98.7	98.7	98.7
Groundwater Level				20.46	NL	21.69	NL
Groundwater Elevation (ft.)				***78.24***	NA	***77.01***	NA
Well No.	**MW-10**	TD: 30'	Screen Interval: 10-30'				
TOC Elevation				98.71	98.71	98.71	98.71
Groundwater Level				19.04	21.03	19.68	19.55
Groundwater Elevation (ft.)				***79.67***	***77.68***	***79.03***	***79.16***
Well No.	**MW-11**	TD: 27'	Screen Interval: 7-27'				
TOC Elevation				98.49	98.49	98.49	98.49
Groundwater Level				18.39	19.98	18.7	18.5
Groundwater Elevation (ft.)				***80.1***	***78.51***	***79.79***	***79.99***

TABLE 1
(continued)
Relative Groundwater Elevations

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

		Date:	1/21/00	4/23/01	11/20/01	6/20/02	9/15/09
Well No.	**MW-12**	TD: 30'		Screen Interval: 10-30'			
TOC Elevation				97.75	97.75	97.75	97.75
Groundwater Level				18.21	19.47	18.19	18.01
Groundwater Elevation (ft.)				***79.54***	***78.28***	***79.56***	***79.74***
Well No.	**MW-13**	TD: 35'		Screen Interval: 15-35'			
TOC Elevation				99.3	99.3	99.3	99.3
Groundwater Level				19.94	21.85	NA	20.74*
Groundwater Elevation (ft.)				***79.36***	***77.45***	NA	***78.56***
Well No.	**MW-14**	TD: 35'		Screen Interval: 15-35'			
TOC Elevation				100.29	100.29	100.29	100.29
Groundwater Level				21.54	23.42	NA	NL
Groundwater Elevation (ft.)				***78.75***	***76.87***	NA	NA
Well No.	**MW-15**	TD: 30'		Screen Interval: 10-30'			
TOC Elevation				97.79	97.79	97.79	97.79
Groundwater Level				FPP	FPP	FPP	FPP
Groundwater Elevation (ft.)							
Well No.	**MW-16**	TD: 30'		Screen Interval: 10-30'			
TOC Elevation				98.68	98.68	98.68	98.68
Groundwater Level				17.87	19.7	18.5	18.19
Groundwater Elevation (ft.)				***80.81***	***78.98***	***80.18***	***80.49***
Well No.	**MW-17**	TD: 30'		Screen Interval: 10-30'			
TOC Elevation				98.89	98.89	98.89	98.89
Groundwater Level				18.29	20.05	18.83	18.75
Groundwater Elevation (ft.)				***80.6***	***78.84***	***80.06***	***80.14***
Well No.	**MW-18**	TD: 30'		Screen Interval: 10-30'			
TOC Elevation				98.43	98.43	98.43	98.43
Groundwater Level				18.12	19.88	18.61	18.94*
Groundwater Elevation (ft.)				***80.31***	***78.55***	***79.82***	***79.49***
Well No.	**MW-19**	TD: 35'		Screen Interval: 15-35'			
TOC Elevation						NA	NA
Groundwater Level						21.86	22.18*
Groundwater Elevation (ft.)						NA	NA
Well No.	**VMW-1**	TD: 60'		Screen Interval: 55-60'			
TOC Elevation				98.32	98.32	98.32	98.32
Groundwater Level					25.96	20.48	19.28
Groundwater Elevation (ft.)				***98.32***	***72.36***	***77.84***	***79.04***

Notes: **FPP - Free Phase Product**
NL - Not Located
*** - Obtained on 10/28/09**
NA - Not Applicable

Table 2
Select Summary of Groundwater Laboratory Analytical Results*
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	1/21/00	4/24/01	11/20/01	6/20/02	9/15/09	10/28/09
Well No: MW-1						NS
Benzene	21000	12400	19100	12100	3300	
Toluene	85000	38000	49800	34500	26000	
Ethylbenzene	2800	1660	3800	2330	3700	
Xylene	21000	13600	21900	12700	21500	
Total BTEX	*129800*	*65660*	*94600*	*61630*	*54500*	
MTBE	ND	ND	ND	ND	<100	
Naphthalene	460	434	530	380	680	
1,2-Dibromoethane	NA	835	NA	NA	69	
1,2-Dichlorethane					<100	
Methane	NA	ND	NA	NA	NA	
Lead*	2.3	1.98	2.32	NA	0.038	
Iron*	0.79	1.36	NA	NA	NA	
Nitrite*	ND	ND	NA	NA	NA	
Nitrate*	0.26	ND	NA	NA	NA	
Sulfate*	ND	1.45	NA	NA	NA	
Sampling Date:	**1/21/00**	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No: MW-2						NS
Benzene	9	ND	ND	ND	<1.0	
Toluene	1600	60.2	262	56.6	<1.0	
Ethylbenzene	880	110	663	148	55	
Xylene	5000	420	3860	541	1.4	
Total BTEX	*7489*	*590.2*	*4785*	*745.6*	*56.4*	
MTBE	ND	ND	ND	ND	<1.0	
Naphthalene	220	30.9	125	33.8	34	
1,2-Dibromoethane					<0.021	
1,2-Dichlorethane	NA	ND	NA	NA	<1.0	
Methane	NA	ND	NA	NA	NA	
Lead*	0.12	0.315	0.125	NA	0.068	
Iron*	14	0.463	NA	NA	NA	
Nitrite*	ND	ND	NA	NA	NA	
Nitrate*	ND	0.11	NA	NA	NA	
Sulfate*	ND	6.76	NA	NA	NA	
Sampling Date:	**1/21/00**	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No: MW-3					NL	
Benzene	4100	1350	1500	711		<100
Toluene	75000	49000	48900	44800		8700
Ethylbenzene	3300	1810	3770	3760		4400
Xylene	18000	16700	*22600*	*20700*		*16400*
Total BTEX	*100400*	*68860*	*76770*	*69971*		*29500*
MTBE	ND	ND	ND	ND		<100
Naphthalene	400	614	645	624		360
1,2-Dibromoethane	NA	ND	NA	NA		<0.021
1,2-Dichlorethane						<100
Methane	NA	111	NA	NA		NA
Lead*	0.063	0.445	0.218	NA		0.026
Iron*	27	16.1	NA	NA		NA
Nitrite*	ND	ND	NA	NA		NA
Nitrate*	ND	ND	NA	NA		NA
Sulfate*	120	156	NA	NA		NA
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No: MW-4		NS	FPP	FPP	FPP	FPP
Benzene						
Toluene						
Ethylbenzene						
Xylene						
Total BTEX						
MTBE						
Naphthalene						
1,2-Dibromoethane						
Methane						
Lead*						
Iron*						
Nitrate*						
Sulfate*						

Sampling Date:		4/24/01	11/20/01	6/20/02	9/15/09	10/28/09
Well No:	MW-5					NS
Benzene		9480	19200	17100	19000	
Toluene		28500	30000	36400	51000	
Ethylbenzene		860	1400	1740	4100	
Xylene		5680	17800	1330	23200	
Total BTEX		*44520*	*68400*	*56570*	*97300*	
MTBE		ND	ND	18	<1000	
Naphthalene		6.25^	510	258	<1000	
1,2-Dibromoethane		460	NA	NA	500	
1,2-Dichlorethane				NA	<1000	
Methane		ND	NA	NA	NA	
Lead*		0.088	0.808	NA	1.3	
Iron*		2.08	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		0.59	NA	NA	NA	
Sulfate*		10.4	NA	NA	NA	
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-6					NS
Benzene		ND	ND	ND	84	
Toluene		ND	ND	ND	150	
Ethylbenzene		ND	ND	ND	19	
Xylene		3.1	ND	ND	68	
Total BTEX		*3.1*	*ND*	*ND*	*321*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		ND	ND	ND	<1.0	
1,2-Dibromoethane		ND	NA	NA	<0.021	
1,2-Dichlorethane				NA	<1.0	
Methane		ND	NA	NA	NA	
Lead*		0.192	0.053	NA	0.041	
Iron*		0.102	NA	NA	NA	
Nitrite*		0.44	NA	NA	NA	
Nitrate*		0.52	NA	NA	NA	
Sulfate*		ND	NA	NA	NA	
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-7				NL	NL
Benzene		ND	ND	ND		
Toluene		ND	ND	ND		
Ethylbenzene		ND	ND	ND		
Xylene		ND	ND	ND		
Total BTEX		*ND*	*ND*	*ND*		
MTBE		ND	ND	ND		
Naphthalene		ND	ND	ND		
1,2-Dibromoethane		ND	NA	NA		
Methane		ND	NA	NA		
Lead*		0.144	0.017	NA		
Iron*		0.19	NA	NA		
Nitrite*		ND	NA	NA		
Nitrate*		1.11	NA	NA		
Sulfate*		ND	NA	NA		
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-8					NS
Benzene		ND	ND	ND	<1.0	
Toluene		ND	ND	ND	1.1	
Ethylbenzene		ND	ND	ND	<1.0	
Xylene		ND	ND	ND	<3.0	
Total BTEX		*ND*	*ND*	*ND*	*1.1*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		ND	ND	ND	<1.0	
1,2-Dibromoethane		ND	NA	NA	<0.022	
1,2-Dichlorethane					<1.0	
Methane		ND	NA	NA	NA	
Lead*		0.016	0.007	NA	0.28	
Iron*		ND	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		0.79	NA	NA	NA	
Sulfate*		ND	NA	NA	NA	

Sampling Date:		4/24/01	11/20/01	6/20/02	9/15/09	10/28/09
Well No:	MW-9		NS	NS	NL	NL
Benzene		ND				
Toluene		ND				
Ethylbenzene		ND				
Xylene		ND				
Total BTEX		*ND*				
MTBE		ND				
Naphthalene		ND				
1,2-Dibromoethane		ND				
Methane		ND				
Lead*		0.404				
Iron*		0.615				
Nitrite*		ND				
Nitrate*		1.84				
Sulfate*		1.44				
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-10					NS
Benzene		ND	ND	ND	<1.0	
Toluene		ND	ND	ND	<1.0	
Ethylbenzene		ND	ND	ND	<1.0	
Xylene		ND	ND	ND	<3.0	
Total BTEX		*ND*	*ND*	*ND*	*<6.0*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		ND	ND	ND	<1.0	
1,2-Dibromoethane		ND	NA	NA	<0.021	
1,2-Dichlorethane					<1.0	
Methane		ND	NA	NA	NA	
Lead*		0.078		NA	0.23	
Iron*		0.184	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		2.48	NA	NA	NA	
Sulfate*		1.42	NA	NA	NA	
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-11					NS
Benzene		ND	ND	ND	<1.0	
Toluene		ND	ND	ND	<1.0	
Ethylbenzene		ND	ND	ND	<1.0	
Xylene		ND	ND	ND	<3.0	
Total BTEX		*ND*	*ND*	*ND*	*<6.0*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		ND	ND	ND	<1.0	
1,2-Dibromoethane		ND	NA	NA	<0.021	
1,2-Dichlorethane					<1.0	
Methane		ND	NA	NA	NA	
Lead*		0.092	0.042	NA	0.016	
Iron*		10.2	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		1.22	NA	NA	NA	
Sulfate*		5.65	NA	NA	NA	
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-12					NS
Benzene		4850	4410	2400	950	
Toluene		5160	467	682	2200	
Ethylbenzene		1090	410	497	1100	
Xylene		6150	3270	2140	4900	
Total BTEX		*17250*	*8557*	*5719*	*9150*	
MTBE		ND	ND	ND	38	
Naphthalene		93	194	194	320	
1,2-Dibromoethane		30.1	NA	NA	3.6	
1,2-Dichlorethane				NA	55	
Methane		ND	NA	NA	NA	
Lead*		0.094	0.109	NA	0.023	
Iron*		ND	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		ND	NA	NA	NA	
Sulfate*		2.32	NA	NA	NA	

Sampling Date:		4/24/01	11/20/01	6/20/02	9/15/09	10/28/09
Well No:	MW-13				NL	
Benzene		2300	1790	2050		<1.0
Toluene		29.8	23.5	ND		<1.0
Ethylbenzene		45.8	497	385		4.1
Xylene		15000	303	2700		49
Total BTEX		*17375.6*	*2613.5*	*5135*		*53.1*
MTBE		ND	ND	ND		<1.0
Naphthalene		28.2	101	63^		<1.0
1,2-Dibromoethane		11.6	NA	NA		<0.021
1,2-Dichlorethane				NA		20
Methane		ND	NA	NA		NA
Lead*		0.003	0.138	NA		0.24
Iron*		ND	NA	NA		NA
Nitrite*		ND	NA	NA		NA
Nitrate*		ND	NA	NA		NA
Sulfate*		ND	NA	NA		NA
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-14				NL	NL
Benzene		2800	ND	ND		
Toluene		ND	ND	ND		
Ethylbenzene		ND	ND	ND		
Xylene		ND	ND	ND		
Total BTEX		*2800*	*ND*	*ND*		
MTBE		ND	ND	ND		
Naphthalene		ND	ND	ND		
1,2-Dibromoethane		ND	NA	NA		
Methane		ND	NA	NA		
Lead*		0.119	0.196	NA		
Iron*		0.288	NA	NA		
Nitrite*		ND	NA	NA		
Nitrate*		1.05	NA	NA		
Sulfate*		4.18	NA	NA		
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-15	NS	FPP	FPP	FPP	FPP
Benzene						
Toluene						
Ethylbenzene						
Xylene						
Total BTEX						
MTBE						
Naphthalene						
1,2-Dibromoethane						
Methane						
Lead*						
Iron*						
Nitrite*						
Nitrate*						
Sulfate*						
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-16					NS
Benzene		ND	ND	ND	<1.0	
Toluene		ND	ND	ND	<1.0	
Ethylbenzene		ND	ND	ND	<1.0	
Xylene		ND	ND	ND	<3.0	
Total BTEX		*ND*	*ND*	*ND*	*<6.0*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		ND	ND	ND	<1.0	
1,2-Dibromoethane		ND	NA	NA	<0.021	
1,2-Dichlorethane					<1.0	
Methane		ND	NA	NA	NA	
Lead*		0.089	ND	ND	0.11	
Iron*		ND	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		0.81	NA	NA	NA	
Sulfate*		9.26	NA	NA	NA	

Sampling Date:		4/24/01	11/20/01	6/20/02	9/15/09	10/28/09
Well No:	MW-17					NS
Benzene		ND	ND	ND	<1.0	
Toluene		ND	ND	ND	<1.0	
Ethylbenzene		ND	ND	ND	<1.0	
Xylene		ND	ND	ND	<3.0	
Total BTEX		*ND*	*ND*	*ND*	*<6.0*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		ND	ND	ND	<1.0	
1,2-Dibromoethane		ND	NA	NA	<0.021	
1,2-Dichlorethane					<1.0	
Methane		ND	NA	NA	NA	
Lead*		0.129	0.004	NA	0.015	
Iron*		ND	NA	NA	NA	
Nitrite*		ND	NA	NA	NA	
Nitrate*		0.2	NA	NA	NA	
Sulfate*		ND	NA	NA	NA	
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-18				NL	
Benzene		ND	ND	ND		<1.0
Toluene		ND	ND	ND		<1.0
Ethylbenzene		ND	ND	ND		<1.0
Xylene		ND	ND	ND		<3.0
Total BTEX		*ND*	*ND*	*ND*		*<6.0*
MTBE		ND	ND	ND		<1.0
Naphthalene		ND	ND	ND		<1.0
1,2-Dibromoethane		ND	NA	NA		<0.021
Methane		ND	NA	NA		NA
Lead*		0.039	0.049	0.039		<0.0050
Iron*		0.126	NA	NA		NA
Nitrite*		ND	NA	NA		NA
Nitrate*		10.8	NA	NA		NA
Sulfate*		ND	NA	NA		NA
Sampling Date:				**6/20/02**	**9/15/09**	**10/28/09**
Well No:	MW-19				NS	
Benzene				ND		<1.0
Toluene				ND		<1.0
Ethylbenzene				ND		<1.0
Xylene				ND		<3.0
Total BTEX				*ND*		*<6.0*
MTBE				ND		<1.0
Naphthalene				ND		<1.0
1,2-Dibromoethane				NA		<0.021
1,2-Dichlorethane				NA		<1.0
Lead*				NA		0.011
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**
Well No:	VMW-1					NS
Benzene		67.4	2.9	3.8	7	
Toluene		140	3.7	4.7	9.7	
Ethylbenzene		29.3	ND	ND	<1.0	
Xylene		199	3.4	7.1	6.4	
Total BTEX		*435.7*	*10*	*15.6*	*23.1*	
MTBE		ND	ND	ND	<1.0	
Naphthalene		30.4	ND	ND	1.6	
1,2-Dibromoethane		ND	NA	NA	<0.021	
1,2-Dichlorethane					<1.0	
Methane		ND	NA	NA	NA	
Lead*		ND	ND	NA	<0.0050	
Iron*		0.111	NA	NA	NA	
Nitrite/Nitrate*		0.86	NA	NA	NA	
Sulfate*		26800	NA	NA	NA	

Notes:	ND - Not Detected
	NS - Not sampled
	NA - Not Applicable/Analysis not requested
	* in mg/L
	^ by 8270 (organic parameters)
	FPP - Free Phase Product
	NL - Not Located/Well destroyed

Table 3
Select Summary of Oxygenates Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

SAMPLE POINT	MW-1	MW-2	MW-3	MW-5	MW-6	MW-8	MW-10	MW-11	MW-12	MW-13	MW-16	MW-17	MW-18	MW-19	VMW-1
Sample Date	**9/15/09**	**9/15/09**	**10/28/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**9/15/09**	**10/28/09**	**9/15/09**	**9/15/09**	**10/28/09**	**10/28/09**	**9/15/09**
Ethanol	1190U	59.5U	59.5U	1190U	298U	59.5U	59.5U	59.5U	298U	59.5U	59.5U	59.5U	59.5U	59.5U	59.5U
Ethyl tert-Butyl Ether	5.18U	0.259U	0.259U	5.18U	1.3U	0.259U	0.259U	0.259U	1.3U	0.259U	0.259U	0.259U	0.259U	0.259U	0.259U
Di isopropyl Ether	10.6U	0.529U	0.529U	321	2.65U	0.529U	0.529U	0.529U	25.6	3.69J	0.529U	0.529U	0.529U	0.529U	0.529U
Ethyl tert-Butyl Alcohol	111U	5.56U	5.56U	111U	27.8U	5.56U	5.56U	5.56U	27.8U	5.56U	5.56U	5.56U	5.56U	5.56U	5.56U
Tertiary Butyl Alcohol	82.4U	4.12U	4.12U	82.4U	20.6U	4.12U	4.12U	4.12U	20.6U	4.12U	4.12U	4.12U	4.12U	4.12U	4.12U
Tert-Amyl Methyl Ether	6.96U	0.348U	0.348U	6.96U	1.74U	0.348U	0.348U	0.348U	1.74U	0.348U	0.348U	0.348U	0.348U	0.348U	0.348U
t-amyl Alcohol	1080	176	15.6U	7950	1110	15.6U	15.6U	15.6U	812	15.6U	15.6U	15.6U	15.6U	15.6U	15.6U
t-Butyl Formate	7.14U	0.357U	0.357U	7.14U	1.79U	0.357U	0.357U	0.357U	1.79U	0.357U	0.357U	0.357U	0.357U	0.357U	0.357U
Notes:															
** in ug/L*															
"J" indicates an estimated value															
"U" Indicates the compound was analyzed for but not detected															

APPENDICES

Appendix A

Date 8/24/2009

Rhodes Service Station

MW-4, MW-15

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

MW-4
Depth to Water : 20.48'
Depth to Product : 16.66'
Product Thickness : .3.82'

Stinger pipe set : 21'
Vacuum set at 25"Hg

MW-15
Depth to Water : 19.36'
Depth to Product : 17.62'
Product Thickness :1.74'

Stinger pipe set : 20'

Weather Conditions
Mostly sunny with some spotty clouds
Temp: 78.3°F
Winds pushing to the East

Discharge Stack ID= 3"

TIME: 30 Min Intervals

Time	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00
FID Readings : ppm	5.00%	5.00%	5.00%	5.00%	5.20%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Discharge Stack Temp. °F	102°	108°	110°	180°	111°	111°	111°	114°	115°	114°	115°	115°	115°	116°	117°	118°	120°
Discharge Stack Velocity: ft/min	1064.8	1091.2	1152.8	1196.8	1249.6	1381.6	1258.4	1355.2	1408.0	1522.4	1416.8	1390.4	1425.6	1452.0	1496.0	1496.0	1487.2
Barometric Pressure	77%	70%	70%	67%	58%	40%	32%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
Ambient Air Temp. °F	78.3	78.1	77.5	78.2	79.6	80.1	81.0	81.7	82.4	88.5	89.4	91.0	93.7	95.0	96.3	91.8	91.7

Date 9/10/2009

Rhodes Service Station
MW-4, MW-15

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

MW-4
Depth to Water : 18.63'
Depth to Product : 18.45'
Product Thickness : .18'

Stinger pipe set : 20'
Vacuum set at 25"Hg

MW-15
Depth to Water : 18.21'
Depth to Product : 17.94'
Product Thicknesst : .27'

Stinger pipe set : 19'

Weather Conditions
Cool and cloudy, Scattered Storms
Temp: 61°F
Winds pushing NNE

Discharge Stack ID= 3"

TIME: 30 Min Intervals

Time	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00
FID Readings : ppm	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Discharge Stack Temp. °F	102°	108°	110°	112°	111°	113°	114°	115°	116°	116°	116°	118°	118°	120°	120°	123°	122°
Discharge Stack Velocity: ft/min	1064.8	1091.2	1152.8	1196.8	1249.6	1381.6	1258.4	1355.2	1408.0	1522.4	1416.8	1390.4	1425.6	1452.0	1496.0	1496.0	1487.2
Barometric Pressure	86%	75%	60%	60%	55%	47%	33%	30%	25%	22%	24%	20%	20%	20%	20%	20%	20%
Ambient Air Temp. °F	61.2	61.2	62.1	62.0	63.5	63.8	63.8	64.5	64.7	65.1	65.5	66.0	66.4	66.9	67.6	68.4	69.2

Appendix B

Emission Data Sheet for AFVR Event #1

Site Name and Incident no.:**Rhodes Service Station**
Incident Number: **08562**
Average depth to groundwater (in feet) 19.12
List the well I.D. and diameter used for AFVR: **MW-4 and MW-15**
Primary vertical position of stinger pipe inlet and diameter: **1.5' to 2' below top of product (2" PVC)**
List AFVR contractor:**Advanced Environmental Options (AEO)**
List blower specifications: **700 cfm @ 24" Hg and 220 cfm @ 27" Hg Based on 4000 rpm**

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Time	Vacuum at well head (inches of Hg)	Wells Pumped	Velocity (ft/min)	Pipe ID (in)	Temp (°F)	R.H. (%)	Water Vapor (Wt%)	Water Vapor (Vol%)	Q_{std} (flow)
8/20/2009	7:00	25.00	MW-4 and MW-15	1065	3	102	77.0	0.0850	0.120	43
	8:00	25.00		1153	3	110	70.0	0.0800	0.114	46
	9:00	25.00		1250	3	111	58.0	0.0950	0.132	49
	10:00	25.00		1258	3	111	32.0	0.0950	0.132	50
	11:00	25.00		1408	3	115	30.0	0.0950	0.132	55
	12:00	25.00		1417	3	115	30.0	0.0950	0.132	55
	13:00	25.00		1426	3	115	30.0	0.0950	0.132	56
	14:00	25.00		1496	3	117	30.0	0.0950	0.132	58
	15:00	25.00		1487	3	120	30.0	0.0950	0.132	58

NOTES
Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = The rate at which air flows is measured at the blower discharge piping (anemometer or pitot tube)
Pipe ID = The inside diameter of the blower discharge piping (from the vacuum truck)
Temperature = The temperature of the air stream exiting the blower discharge piping (dry bulb temp., in deg.°F)
R.H. (relative humidity) = The % relative humidity of the air stream exiting the blower discharge piping
B_{wsw} = water vapor % by weight (pounds of water per pound of dry air, derived from the Psychrometric chart), temp Vs relative humidity
B_{ws} = water vapor % by volume

EQUATIONS
$B_{ws} = (B_{wsw}/18 \text{ lb-mole } H_20)/[(1/28.84 \text{ lb-mole dry air}) + (B_{wsw}/18 \text{ lb-mole } H_2O)]$
$Q_{std} = (1\text{-Water Vapor}) * \text{velocity} * (PI * (\text{diameter}/24)^2) * (528°R/(\text{Temp} + 460))$

Emission Data Sheet for AFVR Event #1

Time (min)	Flow (DSCFM)	$PPM_{measured}$ (ppm)	PPM_{wet}	PPM_{dry}	K (#C - gas)	PPM_{conc}	$C_{c:m}$ (mg/dsm^3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR (lb)
60	46	50,000	50000	56409	1	56409	28146	0.00175715	4.90	5.67	5.67
120	49	50,000	50000	57611	1	57611	28745	0.00179458	5.30	6.13	12.27
180	50	50,000	50000	57611	1	57611	28745	0.00179458	5.34	6.18	18.53
240	55	50,000	50000	57611	1	57611	28745	0.00179458	5.93	6.86	27.46
300	55	50,000	50000	57611	1	57611	28745	0.00179458	5.97	6.91	34.53
360	56	50,000	50000	57611	1	57611	28745	0.00179458	6.01	6.95	41.70
420	58	50,000	50000	57611	1	57611	28745	0.00179458	6.28	7.27	50.87
480	58	50,000	50000	57611	1	57611	28745	0.00179458	6.21	7.19	57.50

Total emissions in pounds **248.53**
Total emissions in gallons **39.76**

NOTES

$PPM_{measured}$ = Actual measurements (ppm) taken with a OVA or TVA at the blower discharge piping
PPM_{wet} = "wet" concentration
PPM_{dry} = "dry" concentration
K = Number of carbons in calibration gas: (Methane K = 1, or Propane K = 3, or Hexane K = 6)
PPM_c= PPM_v, Volumetric concentration of VOC emissions as carbon, dry basis at STP
$C_{c:m}$ = mg/dsm^3, mass concentration of VOC emissions as carbon
M_c = 12.01 mg/mg-mole, molecular weight of carbon
K_3 = 24.07 $dsm^3/10^6$ mg-mole, mass to volume conversion factor at STP
C_c = lb/dcsf, mass concentration of VOC emissions as carbon, dry basis at STP
PMR_c = lb/hr, pollutant mass removal rate of VOC's as carbon
PMR_g = lb/hr, pollutant mass removal rate of of VOC's as gasoline
PMR = lb, pollutant mass removal of VOC's as gasoline

EQUATIONS

$PPM_{wet} = PPM_{measured}$
$PPM_{dry} = (PPM_{wet})/(1-B_{ws})$
$PPM_c = (PPM_d)(K)$
$C_{c:m} = (PPM_c)(M_c / K_3)$
$C_c = (C_{c:m})(62.43x10^{-9}$ lb-m^3/mg-$ft^3)$
$PMR_c = (C_c)(Q_{std})(60$ min/hr)
$PMR_g = (PMR_c)(M_g/M_{cg})$
$PMR = (PMR_g)(\#minutes/60)$

21	1848
31	2728
25	2200
20	1760
21	1848
23	2024
31	2728
25	2200

Emission Data Sheet for AFVR Event #2

Site Name and Incident no.: **Rhodes Service Station**
Incident Number: **08562**
Average depth to groundwater (in feet) 18.42
List the well I.D. and diameter used for AFVR: **MW-4 and MW-15**
Primary vertical position of stinger pipe inlet and diameter: **1.5' to 2' below top of product (2" PVC)**
List AFVR contractor:**Advanced Environmental Options (AEO)**
List blower specifications: **700 cfm @ 24" Hg and 220 cfm @ 27" Hg Based on 4000 rpm**

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Time	Vacuum at well head (inches of Hg)	Wells Pumped	Velocity (ft/min)	Pipe ID (in)	Temp (°F)	R.H. (%)	Water Vapor (Wt%)	Water Vapor (Vol%)	Q_{std} (flow)
9/10/2009	6:00	25.00	MW-4 and MW-15	1065	3	102	86.0	0.0850	0.120	43
	7:00	25.00		1153	3	110	60.0	0.0800	0.114	46
	8:00	25.00		1250	3	111	55.0	0.0950	0.132	49
	9:00	25.00		1258	3	114	33.0	0.0950	0.132	49
	10:00	25.00		1408	3	116	25.0	0.0950	0.132	55
	11:00	25.00		1417	3	116	24.0	0.0950	0.132	55
	12:00	25.00		1426	3	118	20.0	0.0950	0.132	55
	13:00	25.00		1496	3	120	20.0	0.0950	0.132	58
	14:00	25.00		1487	3	122	20.0	0.0950	0.132	57

NOTES
Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = The rate at which air flows is measured at the blower discharge piping (anemometer or pitot tube)
Pipe ID = The inside diameter of the blower discharge piping (from the vacuum truck)
Temperature = The temperature of the air stream exiting the blower discharge piping (dry bulb temp., in deg.°F)
R.H. (relative humidity) = The % relative humidity of the air stream exiting the blower discharge piping
B_{wsw} = water vapor % by weight (pounds of water per pound of dry air, derived from the Psychrometric chart), temp Vs relative humidity
B_{ws} = water vapor % by volume

EQUATIONS
$B_{ws} = (B_{wsw}/18 \text{ lb-mole } H_20)/[(1/28.84 \text{ lb-mole dry air}) + (B_{wsw}/18 \text{ lb-mole } H_2O)]$
$Q_{std} = (1\text{-Water Vapor}) * \text{velocity} * (PI * (\text{diameter}/24)^2) * (528°R/(\text{Temp} + 460))$

Emission Data Sheet for AFVR Event #2

Time (min)	Flow (DSCFM)	$PPM_{measured}$ (ppm)	PPM_{wet}	PPM_{dry}	K (#C - gas)	PPM_{conc}	$C_{c:m}$ (mg/dsm^3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR (lb)
60	46	50,000	50000	56409	1	56409	28146	0.00175715	4.90	5.67	5.67
120	49	50,000	50000	57611	1	57611	28745	0.00179458	5.30	6.13	12.27
180	49	50,000	50000	57611	1	57611	28745	0.00179458	5.31	6.15	18.44
240	55	50,000	50000	57611	1	57611	28745	0.00179458	5.92	6.85	27.41
300	55	50,000	50000	57611	1	57611	28745	0.00179458	5.96	6.89	34.47
360	55	50,000	50000	57611	1	57611	28745	0.00179458	5.97	6.91	41.48
420	58	50,000	50000	57611	1	57611	28745	0.00179458	6.25	7.23	50.61
480	57	50,000	50000	57611	1	57611	28745	0.00179458	6.19	7.16	57.30

Total emissions in pounds **247.65**
Total emissions in gallons **39.62**

NOTES

$PPM_{measured}$ = Actual measurements (ppm) taken with a OVA or TVA at the blower discharge piping

PPM_{wet} = "wet" concentration

PPM_{dry} = "dry" concentration

K = Number of carbons in calibration gas: (Methane K = 1, or Propane K = 3, or Hexane K = 6)

PPM_c= PPM_v, Volumetric concentration of VOC emissions as carbon, dry basis at STP

$C_{c:m}$ = mg/dsm^3, mass concentration of VOC emissions as carbon

M_c = 12.01 mg/mg-mole, molecular weight of carbon

K_3 = 24.07 $dsm^3/10^6$ mg-mole, mass to volume conversion factor at STP

C_c = lb/dcsf, mass concentration of VOC emissions as carbon, dry basis at STP

PMR_c = lb/hr, pollutant mass removal rate of VOC's as carbon

PMR_g = lb/hr, pollutant mass removal rate of of VOC's as gasoline

PMR = lb, pollutant mass removal of VOC's as gasoline

EQUATIONS

$PPM_{wet} = PPM_{measured}$

$PPM_{dry} = (PPM_{wet})/(1-B_{ws})$

$PPM_c = (PPM_d)(K)$

$C_{c:m} = (PPM_c)(M_c / K_3)$

$C_c = (C_{c:m})(62.43x10^{-9}$ lb-m^3/mg-ft^3)

$PMR_c = (C_c)(Q_{std})(60$ min/hr)

$PMR_g = (PMR_c)(M_g/M_{cg})$

PMR = (PMR_g)(#minutes/60)

21	1848
31	2728
25	2200
20	1760
21	1848
23	2024
31	2728
25	2200
33	2904

Appendix C

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E 3 0 G

Manifest Document No.: 0 0 8 1 0

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Sevice Station
410 Spartanburg Hwy South
Wellford, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-911

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	T T	0 2 0 0 0	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) L/S
Gross - 897 gallons
Petro - 56 gallons
Water - 841 gallons

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact : David Hitchens 864-488-9111, cell - 864-590-4648 job# 5809

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: [illegible]
Signature: [illegible]
Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mark Seay
Signature: [illegible]
Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

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: Kim Garrett
Signature: [illegible]
Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E S Q G

Manifest Document No.: 0 0 8 4 1

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Service Station
410 Spartanburg Hwy South
Wellford, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-9111

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	T T	0 2 0 0 0	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above

a) 6/-
Petroleum: 54 gallons
Water: 812 gallons
Total = 866 gallons

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gross: 34,620, Tare: 27,400, Net: 7220,
Net / 8.34 = 866 gallons, Price per Gallon: $,
AEO Job #: 5871

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: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

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: Kim Garrett | Signature | Date: Month Day Year 9 10 0

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

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APPENDIX D

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E 3 Q G

Manifest Document No.: 0 0 9 0 1

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Sevice Station
410 Spartanburg Hwy South
Wellford, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-9111

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water) (1x15) (001538)	1	T T	0 3 0 0 0	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) L/-

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact : David Hitchens 864-488-9111, cell - 864-590-4648
job# 5960

GENERATOR

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: Matthew Ange
Signature:
Date: Month 10 Day 13 Year 2009

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Matthew Ange
Signature:
Date: Month 10 Day 13 Year 2009

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

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: Month Day Year

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APPENDIX E

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-1

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 25 ft. Below Ground Surface
Depth to Groundwater 18.03 ft. Below Ground Surface
Screen interval 15 ft. to 25 ft.

Length of Water Column (LWC=TWD-DGW) 6.97 ft.

1 Csg Volume (LWC*C) ___ X ___ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								9:50
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample Sample/water level obtained on 9/15/09
No readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-2

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 25 ft. Below Ground Surface
Depth to Groundwater 18.85 ft. Below Ground Surface
Screen interval 15 ft. to 25 ft.

Length of Water Column (LWC=TWD-DGW) 6.15 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1015
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No Purge Sample Sample/water Level obtained on 9/15/04
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-3

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)^2
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 25 ft. Below Ground Surface
Depth to Groundwater 18.11 ft. Below Ground Surface
Screen interval 15 ft. to 25 ft.

Length of Water Column (LWC=TWD-DGW) 6.89 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								1256
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not Located on 9/15/09
No Purge/No Readings Sample/water level obtained on 10/28/09

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-4

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 18.70 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 11.30 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								NO Sample
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks FPP No Sample FPP 18.45-18.63=.18 (FPP level obtained on 9/15/09)
FPP 18.65-18.70 = FPP thickness of .05' (FPP level obtained on 10/28/09)

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-5

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 17.64 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 12.36 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								1103
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-6

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 17.22 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 12.78 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1117
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-7

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater N/A ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not located and is suspected to be destroyed
Well was Not located on 9/15/09 or 10/28/09. Blue Ridge conducted search using Metal Detector

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-8

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 20.58 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 9.42 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1133
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-9

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater N/A ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not Located and is suspected to be destroyed.
Well was not located on 9/15/09 or 10/28/09. Blue Ridge conducted search using Metal Detector

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-10

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 19.55 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 1045 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								1150
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-11

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 27 ft. Below Ground Surface
Depth to Groundwater 18.50 ft. Below Ground Surface
Screen interval 7 to 27 ft.

Length of Water Column (LWC=TWD-DGW) 8.50 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1207
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-12

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 18.01 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 11.99 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1215
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No purge Sample Sample/Water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-13

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 35 ft. Below Ground Surface
Depth to Groundwater 20.74 ft. Below Ground Surface
Screen interval 15 to 35 ft.

Length of Water Column (LWC=TWD-DGW) 14.26 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1330
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Well Not located ON 9/15/09
No purge / No Readings Sample/water level obtained ON 10/28/09

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-14

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 35 ft. Below Ground Surface
Depth to Groundwater N/A ft. Below Ground Surface
Screen interval 15 to 35 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks well Not located and is suspected to be destroyed well was Not located on 9/15/09 or 10/28/09. Blue Ridge conducted search using metal detector

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-15

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 18.21 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 11.79 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								No Sample
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks FPP No Sample. FPP 18.44-18.71=.27 (FPP level obtained on 9/15/09)
FPP 18.02-18.21 = FPP thickness of .19' FPP level obtained on 10/28/09

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # MW-16

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 18.19 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 11.81 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1032
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No Purge Sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-17

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 18.75 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 11.25 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1046
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks No Purge Sample Sample/water level obtained on 9/15/09
No Readings

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-18

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 18.94 ft. Below Ground Surface
Screen interval 10 to 30 ft.

Length of Water Column (LWC=TWD-DGW) 11.06 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1309
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks well Not located ON 9/15/09
No purge/No Readings Sample/water level obtained ON 10/28/09

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562 Well # MW-19

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter _____
serial no. ✓ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 35 ft. Below Ground Surface
Depth to Groundwater 22.18 ft. Below Ground Surface
Screen interval 15 to 35 ft.

Length of Water Column (LWC=TWD-DGW) 12.82 ft.

1 Csg Volume (LWC*C) ____ X ____ = _____ gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)								
pH (s.u.)								1320
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity *								
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks well not located on 9/15/09
No purge/No Readings · Sample/water level obtained on 10/28/09

Rhodes Service Station

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 08562

Well # V MW-1

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. ✓
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 60 ft. Below Ground Surface
Depth to Groundwater 19.28 ft. Below Ground Surface
Screen interval 55 to 60 ft.

Length of Water Column (LWC=TWD-DGW) 40.72 ft.

1 Csg Volume (LWC*C) 40.72 X .163 = 6.64 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield - Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	7.0	13.75					
Time (military)	1222	1231	1239					1240
pH (s.u.)	4.9	4.9	4.8					
Specific Cond. (mS/cm)	171	122	120					
Water Temp (°C)	23.1	21.5	20.8					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen								

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

APPENDIX F

PRISM LABORATORIES, INC.

Case Narrative

Date: 10/06/09
Company: Blue Ridge Environmental Services
Contact: Ken Pimienta
Address: 2315 Kings Road Extension
Shelby, NC 28152

Client Project ID: Rhodes Service Station
Prism COC Group No: G0909509
Collection Date(s): 09/15/09
Lab Submittal Date(s): 09/18/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report , Quality Control and a Subcontracted Laboratory Report with corresponding Chain-of-Custody totaling 49 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

The 8 Oxygenates by Method 8260 analysis subcontracted to GCAL. Laboratory report is attached.

Metals Analysis

No Anomalies Reported

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones
Signature: Robbi A. Jones
Review Date: 10/06/09

Project Manager: Angela D. Overcash
Signature:
Approval Date: 10/06/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

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Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/529-0409

PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-1
Prism Sample ID 258238
COC Group: G0909509
Time Collected: 09/15/09 9:50
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	69	µg/L	2.0	0.54	100	8011	09/30/09 16:21	jvogel	Q44965
Sample Preparation:			33.18 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	DO #	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	100	7.2	100	8260B	09/28/09 17:44	lwitry	Q44761
Benzene	3300	µg/L	100	4.4	100	8260B	09/28/09 17:44	lwitry	Q44761
Ethylbenzene	3700	µg/L	100	8.5	100	8260B	09/28/09 17:44	lwitry	Q44761
m,p-Xylenes	14000	µg/L	200	13	100	8260B	09/28/09 17:44	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	100	11	100	8260B	09/28/09 17:44	lwitry	Q44761
Naphthalene	680	µg/L	100	23	100	8260B	09/28/09 17:44	lwitry	Q44761
o-Xylene	7500	µg/L	100	5.9	100	8260B	09/28/09 17:44	lwitry	Q44761
Toluene	26000	µg/L	1000	64	1000	8260B	09/28/09 17:11	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	104	74 - 133
Bromofluorobenzene	108	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.038	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:34	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-1
Prism Sample ID 258238
COC Group: G0909509
Time Collected: 09/15/09 9:50
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-2
Prism Sample ID 258239
COC Group: G0909509
Time Collected: 09/15/09 10:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	09/29/09 18:06	jvogel	Q44965
Sample Preparation:			32.85 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	98	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/29/09 11:26	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/29/09 11:26	lwitry	Q44761
Ethylbenzene	55	µg/L	1.0	0.085	1	8260B	09/29/09 11:26	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/29/09 11:26	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/29/09 11:26	lwitry	Q44761
Naphthalene	34	µg/L	1.0	0.23	1	8260B	09/29/09 11:26	lwitry	Q44761
o-Xylene	1.4	µg/L	1.0	0.059	1	8260B	09/29/09 11:26	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/29/09 11:26	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	108	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.068	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:50	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-2
Prism Sample ID 258239
COC Group: G0909509
Time Collected: 09/15/09 10:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-16
Prism Sample ID 258240
COC Group: G0909509
Time Collected: 09/15/09 10:32
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 18:33	jvogel	Q44965
Sample Preparation:			33.3 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	99	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:01	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:01	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:01	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:01	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:01	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:01	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:01	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:01	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	106	74 - 133
Bromofluorobenzene	108	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.11	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:58	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-16
Prism Sample ID 258240
COC Group: G0909509
Time Collected: 09/15/09 10:32
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
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10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-17
Prism Sample ID 258241
COC Group: G0909509
Time Collected: 09/15/09 10:46
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	09/29/09 19:01	jvogel	Q44965
Sample Preparation:			32.82 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	108	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:33	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:33	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:33	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:33	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:33	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:33	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:33	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:33	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	107	74 - 133
Bromofluorobenzene	109	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.015	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:05	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-17
Prism Sample ID 258241
COC Group: G0909509
Time Collected: 09/15/09 10:46
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

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Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-5
Prism Sample ID 258242
COC Group: G0909509
Time Collected: 09/15/09 11:03
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	500	µg/L	10	2.7	500	8011	09/30/09 16:49	jvogel	Q44965
Sample Preparation:			32.84 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	DO #	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1000	72	1000	8260B	09/28/09 19:22	lwitry	Q44761
Benzene	19000	µg/L	1000	44	1000	8260B	09/28/09 19:22	lwitry	Q44761
Ethylbenzene	4100	µg/L	1000	85	1000	8260B	09/28/09 19:22	lwitry	Q44761
m,p-Xylenes	16000	µg/L	2000	130	1000	8260B	09/28/09 19:22	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1000	110	1000	8260B	09/28/09 19:22	lwitry	Q44761
Naphthalene	BRL	µg/L	1000	230	1000	8260B	09/28/09 19:22	lwitry	Q44761
o-Xylene	7200	µg/L	1000	59	1000	8260B	09/28/09 19:22	lwitry	Q44761
Toluene	51000	µg/L	1000	64	1000	8260B	09/28/09 19:22	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	106	74 - 133
Bromofluorobenzene	110	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	1.3	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:13	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-5
Prism Sample ID 258242
COC Group: G0909509
Time Collected: 09/15/09 11:03
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-6
Prism Sample ID 258243
COC Group: G0909509
Time Collected: 09/15/09 11:17
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/30/09 15:53	jvogel	Q44965
Sample Preparation:			33.24 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	85	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 13:57	lwitry	Q44761
Benzene	84	µg/L	1.0	0.044	1	8260B	09/28/09 13:57	lwitry	Q44761
Ethylbenzene	19	µg/L	1.0	0.085	1	8260B	09/28/09 13:57	lwitry	Q44761
m,p-Xylenes	55	µg/L	2.0	0.13	1	8260B	09/28/09 13:57	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 13:57	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/28/09 13:57	lwitry	Q44761
o-Xylene	13	µg/L	1.0	0.059	1	8260B	09/28/09 13:57	lwitry	Q44761
Toluene	150	µg/L	1.0	0.064	1	8260B	09/28/09 13:57	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	114	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.041	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:30	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-6
Prism Sample ID 258243
COC Group: G0909509
Time Collected: 09/15/09 11:17
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-8
Prism Sample ID 258244
COC Group: G0909509
Time Collected: 09/15/09 11:33
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.022	0.0059	1	8011	09/29/09 20:24	jvogel	Q44965
Sample Preparation:			32.24 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	95	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 14:29	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/28/09 14:29	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/28/09 14:29	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/28/09 14:29	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 14:29	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/28/09 14:29	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/28/09 14:29	lwitry	Q44761
Toluene	1.1	µg/L	1.0	0.064	1	8260B	09/28/09 14:29	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	97	75 - 121
Dibromofluoromethane	105	74 - 133
Bromofluorobenzene	112	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.28	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:38	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-8
Prism Sample ID 258244
COC Group: G0909509
Time Collected: 09/15/09 11:33
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-10
Prism Sample ID 258245
COC Group: G0909509
Time Collected: 09/15/09 11:55
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 20:52	jvogel	Q44965
Sample Preparation:			33.35 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	109	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 1:34	lwitry	Q44763
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 1:34	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 1:34	lwitry	Q44763
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 1:34	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 1:34	lwitry	Q44763
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 1:34	lwitry	Q44763
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 1:34	lwitry	Q44763
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 1:34	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	98	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.23	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:45	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-10
Prism Sample ID 258245
COC Group: G0909509
Time Collected: 09/15/09 11:55
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-11
Prism Sample ID 258246
COC Group: G0909509
Time Collected: 09/15/09 12:07
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 21:20	jvogel	Q44965
Sample Preparation:			32.88 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	115	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:00	lwitry	Q44763
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:00	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:00	lwitry	Q44763
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:00	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:00	lwitry	Q44763
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:00	lwitry	Q44763
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:00	lwitry	Q44763
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:00	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	99	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	98	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.016	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:53	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Attn Ken Pimienta
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Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-11
Prism Sample ID 258246
COC Group: G0909509
Time Collected: 09/15/09 12:07
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-12
Prism Sample ID: 258247
COC Group: G0909509
Time Collected: 09/15/09 12:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	**3.6**	µg/L	0.10	0.027	5	8011	09/30/09 17:17	jvogel	Q44965
Sample Preparation:			33.56 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	106	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	**55**	µg/L	10	0.72	10	8260B	09/26/09 2:54	lwitry	Q44763
Benzene	**950**	µg/L	10	0.44	10	8260B	09/26/09 2:54	lwitry	Q44763
Ethylbenzene	**1100**	µg/L	100	8.5	100	8260B	09/28/09 17:14	lwitry	Q44763
m,p-Xylenes	**3300**	µg/L	200	13	100	8260B	09/28/09 17:14	lwitry	Q44763
Methyl t-butyl ether (MTBE)	**38**	µg/L	10	1.1	10	8260B	09/26/09 2:54	lwitry	Q44763
Naphthalene	**320**	µg/L	10	2.3	10	8260B	09/26/09 2:54	lwitry	Q44763
o-Xylene	**1600**	µg/L	100	5.9	100	8260B	09/28/09 17:14	lwitry	Q44763
Toluene	**2200**	µg/L	100	6.4	100	8260B	09/28/09 17:14	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	105	75 - 121
Dibromofluoromethane	108	74 - 133
Bromofluorobenzene	104	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	**See Attached**				1	8260B			

* Analysis Note for Subcontract Report: The analysis for the 8 Oxygenates by Method 8260 subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	**0.023**	mg/L	0.0050	0.00095	1	6010B	09/21/09 21:01	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-12
Prism Sample ID 258247
COC Group: G0909509
Time Collected: 09/15/09 12:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
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Angela D. Overcash, V.P. Laboratory Services

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PRISM
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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID VMW-1
Prism Sample ID 258248
COC Group: G0909509
Time Collected: 09/15/09 12:40
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 22:16	jvogel	Q44965
Sample Preparation:			33.09 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	120	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 16:47	lwitry	Q44763
Benzene	7.0	µg/L	1.0	0.044	1	8260B	09/28/09 16:47	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/28/09 16:47	lwitry	Q44763
m,p-Xylenes	4.4	µg/L	2.0	0.13	1	8260B	09/28/09 16:47	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 16:47	lwitry	Q44763
Naphthalene	1.6	µg/L	1.0	0.23	1	8260B	09/28/09 16:47	lwitry	Q44763
o-Xylene	2.0	µg/L	1.0	0.059	1	8260B	09/28/09 16:47	lwitry	Q44763
Toluene	9.7	µg/L	1.0	0.064	1	8260B	09/28/09 16:47	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	97	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	BRL	mg/L	0.0050	0.00095	1	6010B	09/21/09 21:08	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID VMW-1
Prism Sample ID 258248
COC Group: G0909509
Time Collected: 09/15/09 12:40
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Metals by ICP, method 6010B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Lead	0.0006	0.005	<0.0025	mg/L	Q44653

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Lead	0.2577	0.25	mg/L	103	80-120	Q44653

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258238 Lead	0.2929	0.25	mg/L	102	75-125	Q44653

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258238 Lead	0.3001	0.25	mg/L	105	75-125	2	0 - 20	Q44653

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Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44761
Benzene	ND	1	<0.5	µg/L	Q44761
Ethylbenzene	ND	1	<0.5	µg/L	Q44761
m,p-Xylenes	ND	2	<1	µg/L	Q44761
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q44761
Naphthalene	ND	1	<0.5	µg/L	Q44761
o-Xylene	ND	1	<0.5	µg/L	Q44761
Toluene	ND	1	<0.5	µg/L	Q44761

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	56.25	50	µg/L	113	77-131	Q44761
Benzene	54.28	50	µg/L	109	70-141	Q44761
Ethylbenzene	56.98	50	µg/L	114	80-139	Q44761
m,p-Xylenes	114.88	100	µg/L	115	82-136	Q44761
Methyl t-butyl ether (MTBE)	54.11	50	µg/L	108	70-130	Q44761
Naphthalene	51.04	50	µg/L	102	40-136	Q44761
o-Xylene	55.74	50	µg/L	111	73-134	Q44761
Toluene	49.31	50	µg/L	99	78-130	Q44761

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258148	1,2-Dichloroethane	566.5	500	µg/L	113	67-143	Q44761
	Benzene	523.1	500	µg/L	105	62-129	Q44761
	Ethylbenzene	522.8	500	µg/L	105	58-133	Q44761
	m,p-Xylenes	1065.6	1000	µg/L	107	59-137	Q44761
	Methyl t-butyl ether (MTBE)	554.4	500	µg/L	111	70-130	Q44761
	Naphthalene	505.2	500	µg/L	101	54-127	Q44761
	o-Xylene	531.6	500	µg/L	106	65-129	Q44761
	Toluene	467.8	500	µg/L	94	60-131	Q44761

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258148	1,2-Dichloroethane	541.8	500	µg/L	108	67-143	4	0 - 22	Q44761
	Benzene	518.3	500	µg/L	104	62-129	1	0 - 19	Q44761
	Ethylbenzene	501.7	500	µg/L	100	58-133	4	0 - 22	Q44761
	m,p-Xylenes	1025.7	1000	µg/L	103	59-137	4	0 - 20	Q44761

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Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258148 Methyl t-butyl ether (MTBE)	532.3	500	µg/L	106	70-130	4	0 - 20	Q44761
Naphthalene	497.9	500	µg/L	100	54-127	1	0 - 24	Q44761
o-Xylene	507.9	500	µg/L	102	65-129	5	0 - 21	Q44761
Toluene	457.6	500	µg/L	92	60-131	2	0 - 21	Q44761

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Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44763
Benzene	ND	1	<0.5	µg/L	Q44763
Ethylbenzene	ND	1	<0.5	µg/L	Q44763
m,p-Xylenes	ND	2	<1	µg/L	Q44763
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q44763
Naphthalene	ND	1	<0.5	µg/L	Q44763
o-Xylene	ND	1	<0.5	µg/L	Q44763
Toluene	ND	1	<0.5	µg/L	Q44763

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	54.56	50	µg/L	109	77-131	Q44763
Benzene	53.69	50	µg/L	107	70-141	Q44763
Ethylbenzene	52.85	50	µg/L	106	80-139	Q44763
m,p-Xylenes	107.39	100	µg/L	107	82-136	Q44763
Methyl t-butyl ether (MTBE)	51.71	50	µg/L	103	70-130	Q44763
Naphthalene	50.11	50	µg/L	100	40-136	Q44763
o-Xylene	52.47	50	µg/L	105	73-134	Q44763
Toluene	52.92	50	µg/L	106	78-130	Q44763

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258653	1,2-Dichloroethane	564.1	500	µg/L	113	67-143	Q44763
	Benzene	550.6	500	µg/L	110	62-129	Q44763
	Ethylbenzene	534.3	500	µg/L	107	58-133	Q44763
	m,p-Xylenes	1085.6	1000	µg/L	109	59-137	Q44763
	Methyl t-butyl ether (MTBE)	529.6	500	µg/L	106	70-130	Q44763
	Naphthalene	530.8	500	µg/L	106	54-127	Q44763
	o-Xylene	533.2	500	µg/L	107	65-129	Q44763
	Toluene	540.4	500	µg/L	108	60-131	Q44763

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258653	1,2-Dichloroethane	537	500	µg/L	107	67-143	5	0 - 22	Q44763
	Benzene	529.7	500	µg/L	106	62-129	4	0 - 19	Q44763
	Ethylbenzene	523.7	500	µg/L	105	58-133	2	0 - 22	Q44763
	m,p-Xylenes	1062.6	1000	µg/L	106	59-137	2	0 - 20	Q44763

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Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258653	Methyl t-butyl ether (MTBE)	506.6	500	µg/L	101	70-130	4	0 - 20	Q44763
	Naphthalene	514.9	500	µg/L	103	54-127	3	0 - 24	Q44763
	o-Xylene	521.3	500	µg/L	104	65-129	2	0 - 21	Q44763
	Toluene	522.4	500	µg/L	104	60-131	3	0 - 21	Q44763

EDB and DBCP by Microextraction/GC-ECD, method 8011

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dibromoethane (EDB)	ND	0.02	<0.01	µg/L	Q44965

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dibromoethane (EDB)	0.287	0.25	µg/L	115	60-140	Q44965

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258246	1,2-Dibromoethane (EDB)	0.258	0.25	µg/L	103	60-140	Q44965

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258246	1,2-Dibromoethane (EDB)	0.274	0.25	µg/L	110	60-140	6	0 - 20	Q44965

#-See Case Narrative

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
G0909509

LABORATORY REPORT NUMBER
209092104

DATE
09/28/2009

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/28/2009

GCAL Report 209092104

Deliver To	Prism Laboratories, Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364
Attn	Angie Overcash

Project G0909509

CASE NARRATIVE

Client: Prism Laboratories, Inc. **Report:** 209092104

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B - Gas Additives analysis, samples 20909210401 (MW-1), 20909210405 (MW-5), 20909210406 (MW-6), and 20909210410 (MW-12) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Robyn Migues
Technical Director
GCAL REPORT 209092104

THIS REPORT CONTAINS 21 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20
20909210403	MW-16	Water	09/15/2009 10:32	09/19/2009 09:20
20909210404	MW-17	Water	09/15/2009 10:46	09/19/2009 09:20
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20
20909210407	MW-8	Water	09/15/2009 11:33	09/19/2009 09:20
20909210408	MW-10	Water	09/15/2009 11:50	09/19/2009 09:20
20909210409	MW-11	Water	09/15/2009 12:07	09/19/2009 09:20
20909210410	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20
20909210411	VMW-1	Water	09/15/2009 12:40	09/19/2009 09:20

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	1080	400	312	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	176	20.0	15.6	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	321	100	10.6	ug/L
75-85-4	tert-amyl alcohol (TAA)	7950	400	312	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	1110	100	78.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210410	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	25.6	25.0	2.65	ug/L
75-85-4	tert-amyl alcohol (TAA)	812	100	78.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-01	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/22/2009 01:20	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	1190U	20000	1190	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.18U	100	5.18	ug/L
108-20-3	diisopropyl Ether (DIPE)	10.6U	100	10.6	ug/L
624-95-3	ethyl tert-butanol (ETBA)	111U	2000	111	ug/L
75-65-0	t-Butanol (TBA)	82.4U	200	82.4	ug/L
994-05-8	t-amyl methyl ether (TAME)	6.96U	100	6.96	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1080**	**400**	**312**	**ug/L**
762-75-4	tert-butyl formate (TBF)	7.14U	100	7.14	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1150	ug/L	115	50 - 150
1868-53-7	Dibromofluoromethane	1000	1070	ug/L	107	50 - 150
2037-26-5	Toluene d8	1000	963	ug/L	96	50 - 150
17060-07-0	1,2-Dichloroethane-d4	1000	1040	ug/L	104	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-02	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 02:54	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**176**	**20.0**	**15.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.9	ug/L	106	50 - 150
1868-53-7	Dibromofluoromethane	50	52	ug/L	104	50 - 150
2037-26-5	Toluene d8	50	46.7	ug/L	93	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	55.9	ug/L	112	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104003	MW-16	Water	09/15/2009 10:32	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 03:18	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	50	53.4	ug/L	107	50 - 150
2037-26-5	Toluene d8	50	48.1	ug/L	96	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-04	MW-17	Water	09/15/2009 10:46	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 03:41	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	50 - 150
1868-53-7	Dibromofluoromethane	50	53.8	ug/L	108	50 - 150
2037-26-5	Toluene d8	50	49.7	ug/L	99	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/22/2009 06:04	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	1190U	20000	1190	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.18U	100	5.18	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**321**	**100**	**10.6**	ug/L
624-95-3	ethyl tert-butanol (ETBA)	111U	2000	111	ug/L
75-65-0	t-Butanol (TBA)	82.4U	200	82.4	ug/L
994-05-8	t-amyl methyl ether (TAME)	6.96U	100	6.96	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**7950**	**400**	**312**	ug/L
762-75-4	tert-butyl formate (TBF)	7.14U	100	7.14	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1130	ug/L	113	50 - 150
1868-53-7	Dibromofluoromethane	1000	1080	ug/L	108	50 - 150
2037-26-5	Toluene d8	1000	881	ug/L	88	50 - 150
17060-07-0	1,2-Dichloroethane-d4	1000	1050	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-06	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/25/2009 23:11	SLR	418993

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	298U	5000	298	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.30U	25.0	1.30	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.65U	25.0	2.65	ug/L
624-95-3	ethyl tert-butanol (ETBA)	27.8U	500	27.8	ug/L
75-65-0	t-Butanol (TBA)	20.6U	50.0	20.6	ug/L
994-05-8	t-amyl methyl ether (TAME)	1.74U	25.0	1.74	ug/L
75-85-4	tert-amyl alcohol (TAA)	1110	100	78.0	ug/L
762-75-4	tert-butyl formate (TBF)	1.79U	25.0	1.79	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	249	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	250	256	ug/L	102	50 - 150
2037-26-5	Toluene d8	250	258	ug/L	103	50 - 150
17060-07-0	1,2-Dichloroethane-d4	250	238	ug/L	95	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-07	MW-3	Water	09/15/2009 11:33	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 04:27	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	55.9	ug/L	112	50 - 150
2037-26-5	Toluene d8	50	48.3	ug/L	97	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	53.1	ug/L	106	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-08	MW-10	Water	09/15/2009 11:50	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 04:53	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	56.1	ug/L	112	50 - 150
2037-26-5	Toluene d8	50	48.7	ug/L	97	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-09	MW-11	Water	09/15/2009 12:07	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 05:17	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	50 - 150
1868-53-7	Dibromofluoromethane	50	54.9	ug/L	110	50 - 150
2037-26-5	Toluene d8	50	47.6	ug/L	95	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-10	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/22/2009 06:28	WAS	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	298U	5000	298	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.30U	25.0	1.30	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**25.6**	**25.0**	**2.65**	**ug/L**
624-95-3	ethyl tert-butanol (ETBA)	27.8U	500	27.8	ug/L
75-65-0	t-Butanol (TBA)	20.6U	50.0	20.6	ug/L
994-05-8	t-amyl methyl ether (TAME)	1.74U	25.0	1.74	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**812**	**100**	**78.0**	**ug/L**
762-75-4	tert-butyl formate (TBF)	1.79U	25.0	1.79	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	290	ug/L	116	50 - 150
1868-53-7	Dibromofluoromethane	250	273	ug/L	109	50 - 150
2037-26-5	Toluene d8	250	224	ug/L	90	50 - 150
17060-07-0	1,2-Dichloroethane-d4	250	263	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-11	VMW-1	Water	09/15/2009 12:40	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 05:40	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	54.8	ug/L	110	50 - 150
2037-26-5	Toluene d8	50	47.6	ug/L	95	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 418719	Client ID	MB418719			LCS418719			LCSD418719			
Prep Batch N/A	GCAL ID	760861			760862			760863			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	09/21/2009 23:00			09/21/2009 20:52			09/21/2009 21:27			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	56.3	113	50 - 150	55.9	112	0.7	50
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	56.3	113	50 - 150	55.5	111	1	50
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	54.6	109	50 - 150	53.1	106	3	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	56.3	113	50 - 150	54.9	110	3	50
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2420	95	50 - 150	2380	93	2	50
64-17-5	Ethanol	59.5U	59.5	25200	29200	116	50 - 150	23300	92	22	50
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	215	108	50 - 150	208	104	3	50
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	56.6	113	50 - 150	54.6	109	4	50
Surrogate											
460-00-4	4-Bromofluorobenzene	51.2	102	50	51	102	50 - 150	51.8	104		
1868-53-7	Dibromofluoromethane	54.1	108	50	51.5	103	50 - 150	51.3	103		
2037-26-5	Toluene d8	50.4	101	50	47.1	94	50 - 150	46.4	93		
17060-07-0	1,2-Dichloroethane-d4	51.8	104	50	51.6	103	50 - 150	51.9	104		

Analytical Batch 418719	Client ID	MW-1			760518MS			760518MSD			
Prep Batch N/A	GCAL ID	20909210401			761017			761018			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/22/2009 01:20			09/22/2009 01:44			09/22/2009 02:07			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.00	6.96	1000	1280	128	50 - 150	1200	120	6	50
75-65-0	t-Butanol (TBA)	0.00	82.4	1000	1460	146	50 - 150	1170	117	22	50
108-20-3	diisopropyl Ether (DIPE)	0.00	10.6	1000	1210	121	50 - 150	1160	116	4	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.00	5.18	1000	1230	123	50 - 150	1200	120	2	50
624-95-3	ethyl tert-butanol (ETBA)	0.00	111	51000	51200	100	50 - 150	43800	86	16	50
64-17-5	Ethanol	0.00	1190	504000	623000	124	50 - 150	547000	109	13	50
75-85-4	tert-amyl alcohol (TAA)	1080	312	4000	6630	139	50 - 150	5610	113	17	50
762-75-4	tert-butyl formate (TBF)	0.00	7.14	1000	1230	123	50 - 150	1210	121	2	50
Surrogate											
460-00-4	4-Bromofluorobenzene	1150	115	1000	1110	111	50 - 150	1090	109		
1868-53-7	Dibromofluoromethane	1070	107	1000	1030	103	50 - 150	1030	103		

GC/MS Volatiles Quality Control Summary

Analytical Batch 418719 Prep Batch N/A	Client ID	MW-1	760518MS	760518MSD
	GCAL ID	20909210401	761017	761018
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	09/22/2009 01:20	09/22/2009 01:44	09/22/2009 02:07
	Matrix	Water	Water	Water

SW-846 8260B		Units	ug/L	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
2037-26-5	Toluene d8	963	96	1000	882	88	50 - 150	879	88		
17060-07-0	1,2-Dichloroethane-d4	1040	104	1000	1070	107	50 - 150	1040	104		

Analytical Batch 418993 Prep Batch N/A	Client ID	MB418993	LCS418993
	GCAL ID	762461	762462
	Sample Type	Method Blank	LCS
	Analytical Date	09/25/2009 17:43	09/25/2009 16:55
	Matrix	Water	Water

SW-846 8260B		Units	ug/L Result	Spike Added	Result	% R	Control Limits % R
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	55.7	111	50 - 150
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	46.9	94	50 - 150
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	53.6	107	50 - 150
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	54.0	108	50 - 150
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2330	91	50 - 150
64-17-5	Ethanol	59.5U	59.5	25200	27700	110	50 - 150
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	196	98	50 - 150
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	52.6	105	50 - 150
Surrogate							
460-00-4	4-Bromofluorobenzene	48.8	98	50	51	102	50 - 150
1868-53-7	Dibromofluoromethane	52.5	105	50	50.1	100	50 - 150
2037-26-5	Toluene d8	52.4	105	50	49.4	99	50 - 150
17060-07-0	1,2-Dichloroethane-d4	48.2	96	50	50.1	100	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 418993 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	151781 20909234411 SAMPLE 09/25/2009 20:27 Water	761375MS 762635 MS 09/25/2009 21:14 Water	761375MSD 762636 MSD 09/25/2009 21:37 Water

SW-846 8260B		Units	ug/L	Spike Added	Result	% R	Control Limits	Result	% R	RPD	RPD Limit
994-05-8	t-amyl methyl ether (TAME)	0.00	17.4	2500	2670	107	50 - 150	2780	111	4	50
75-65-0	t-Butanol (TBA)	0.00	206	2500	2690	108	50 - 150	2600	104	3	50
108-20-3	diisopropyl Ether (DIPE)	0.00	26.5	2500	2490	100	50 - 150	2460	98	1	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.00	13.0	2500	2550	102	50 - 150	2530	101	0.8	50
624-95-3	ethyl tert-butanol (ETBA)	0.00	278	128000	132000	104	50 - 150	117000	92	12	50
64-17-5	Ethanol	0.00	2980	1260000	1360000	108	50 - 150	1320000	105	3	50
75-85-4	tert-amyl alcohol (TAA)	3100	780	10000	12100	90	50 - 150	11900	88	2	50
762-75-4	tert-butyl formate (TBF)	0.00	17.9	2500	2510	100	50 - 150	2480	99	1	50
Surrogate											
460-00-4	4-Bromofluorobenzene			2500	2550	102	50 - 150	2490	100		
1868-53-7	Dibromofluoromethane			2500	2520	101	50 - 150	2500	100		
2037-26-5	Toluene d8			2500	2500	100	50 - 150	2410	96		
17060-07-0	1,2-Dichloroethane-d4			2500	2520	101	50 - 150	2560	102		

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Prism Labs, Inc.
Report To/Contact Name: Angie Overcash
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF ___ Excel ___ Other _____
Site Location Name: _____
Site Location Physical Address: _____

Project Name: G0409509
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements.
Invoice To: _____
Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 5-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.7	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES (not) W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___
SC X OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED 8 oxygenates	REMARKS	PRISM LAB ID NO.
MW-1	9/15/09	09:50	GW	VOA	2	40ml	HCL	X	258238	1
MW-2		10:15						X	258239	2
MW-16		10:32						X	258240	3
MW-17		10:46						X	258241	4
MW-5		11:03						X	258242	5
MW-6		11:17						X	258243	6
MW-8		11:33						X	258244	7
MW-10		11:50						X	258245	8
MW-11		12:07						X	258246	9
MW-12		12:15						X	258247	10
VMW-1		12:40						X	258248	11

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) _____ Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By (Signature)	Received By (Signature)	Date	Military/Hours
[signature]	Fed Ex	9/18/09	
Relinquished By (Signature) Fed Ex	Received By (Signature)	Date	
Relinquished By (Signature) Fed Ex	Received For Prism Laboratories By: [signature]	Date 9/19/09	0920

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Seal No.: Rel. cooler Rec: [signature] 9-21-5 LW

Additional Comments: 4.7°C

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES: ☐ NC ☐ SC ☐ | UST: ☐ NC ☐ SC ☐ | GROUNDWATER: ☐ NC ☐ SC ☐ | DRINKING WATER: ☐ NC ☐ SC ☐ | SOLID WASTE: ☐ NC ☐ SC ☐ | RCRA: ☐ NC ☐ SC ☐ | CERCLA ☐ NC ☐ SC ☐ | LANDFILL ☐ NC ☐ SC ☐ | OTHER: ☐ NC ☐ SC ☐

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

SC

SHELBY, N.C. 28152
704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 16880

LAB: Prism

SAMPLERS: Matt Ainge

PROJECT MANAGER: Ken Pimienta

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX + Naph + MTBE 8260B	8 oxygenates 8260B	Lead	EDB 8011			REMARKS
MW-1	9/15/09	9:50		✓	Groundwater Sample		10	✓	✓	✓	✓			258238
MW-2		1015		✓				✓	✓	✓	✓			258239
MW-16		1032		✓				✓	✓	✓	✓			258240
MW-17		1046		✓				✓	✓	✓	✓			258241
MW-5		1103		✓				✓	✓	✓	✓			258242
MW-6		1117		✓				✓	✓	✓	✓			258243
MW-8		1133		✓				✓	✓	✓	✓			258244
MW-10		1150		✓				✓	✓	✓	✓			258245
MW-11		1207		✓				✓	✓	✓	✓			258246
MW-12		1215		✓				✓	✓	✓	✓			258247
VMW-1		1240		✓				✓	✓	✓	✓			258248

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
[signature]	9-18-09	1035	[signature]	9/18/09	1035
RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:

X:\MISC\CHAIN1.vcd 1/31/

G0909509

Temp 5.2°

PRISM LABORATORIES, INC.

Case Narrative

Date: 10/06/09
Company: Blue Ridge Environmental Services
Contact: Ken Pimienta
Address: 2315 Kings Road Extension
Shelby, NC 28152

Client Project ID: Rhodes Service Station
Prism COC Group No: G0909509
Collection Date(s): 09/15/09
Lab Submittal Date(s): 09/18/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report , Quality Control and a Subcontracted Laboratory Report with corresponding Chain-of-Custody totaling 49 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

The 8 Oxygenates by Method 8260 analysis subcontracted to GCAL. Laboratory report is attached.

Metals Analysis

No Anomalies Reported

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones
Signature: Robbi A. Jones
Review Date: 10/06/09

Project Manager: Angela D. Overcash
Signature:
Approval Date: 10/06/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-1
Prism Sample ID 258238
COC Group: G0909509
Time Collected: 09/15/09 9:50
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	**69**	µg/L	2.0	0.54	100	8011	09/30/09 16:21	jvogel	Q44965
Sample Preparation:			33.18 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	DO #	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	**BRL**	µg/L	100	7.2	100	8260B	09/28/09 17:44	lwitry	Q44761
Benzene	**3300**	µg/L	100	4.4	100	8260B	09/28/09 17:44	lwitry	Q44761
Ethylbenzene	**3700**	µg/L	100	8.5	100	8260B	09/28/09 17:44	lwitry	Q44761
m,p-Xylenes	**14000**	µg/L	200	13	100	8260B	09/28/09 17:44	lwitry	Q44761
Methyl t-butyl ether (MTBE)	**BRL**	µg/L	100	11	100	8260B	09/28/09 17:44	lwitry	Q44761
Naphthalene	**680**	µg/L	100	23	100	8260B	09/28/09 17:44	lwitry	Q44761
o-Xylene	**7500**	µg/L	100	5.9	100	8260B	09/28/09 17:44	lwitry	Q44761
Toluene	**26000**	µg/L	1000	64	1000	8260B	09/28/09 17:11	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	104	74 - 133
Bromofluorobenzene	108	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	**See Attached**				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	**0.038**	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:34	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-1
Prism Sample ID 258238
COC Group: G0909509
Time Collected: 09/15/09 9:50
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-2
Prism Sample ID 258239
COC Group: G0909509
Time Collected: 09/15/09 10:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	09/29/09 18:06	jvogel	Q44965
Sample Preparation:			32.85 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	98	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/29/09 11:26	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/29/09 11:26	lwitry	Q44761
Ethylbenzene	55	µg/L	1.0	0.085	1	8260B	09/29/09 11:26	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/29/09 11:26	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/29/09 11:26	lwitry	Q44761
Naphthalene	34	µg/L	1.0	0.23	1	8260B	09/29/09 11:26	lwitry	Q44761
o-Xylene	1.4	µg/L	1.0	0.059	1	8260B	09/29/09 11:26	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/29/09 11:26	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	108	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.068	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:50	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-2
Prism Sample ID 258239
COC Group: G0909509
Time Collected: 09/15/09 10:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-16
Prism Sample ID 258240
COC Group: G0909509
Time Collected: 09/15/09 10:32
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 18:33	jvogel	Q44965
Sample Preparation:			33.3 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	99	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:01	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:01	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:01	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:01	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:01	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:01	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:01	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:01	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	106	74 - 133
Bromofluorobenzene	108	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.11	mg/L	0.0050	0.00095	1	6010B	09/21/09 19:58	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-16
Prism Sample ID 258240
COC Group: G0909509
Time Collected: 09/15/09 10:32
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-17
Prism Sample ID 258241
COC Group: G0909509
Time Collected: 09/15/09 10:46
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	09/29/09 19:01	jvogel	Q44965
Sample Preparation:			32.82 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	108	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:33	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:33	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:33	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:33	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:33	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:33	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:33	lwitry	Q44761
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:33	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	107	74 - 133
Bromofluorobenzene	109	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.015	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:05	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-17
Prism Sample ID 258241
COC Group: G0909509
Time Collected: 09/15/09 10:46
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-5
Prism Sample ID 258242
COC Group: G0909509
Time Collected: 09/15/09 11:03
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	500	µg/L	10	2.7	500	8011	09/30/09 16:49	jvogel	Q44965
Sample Preparation:			32.84 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	DO #	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1000	72	1000	8260B	09/28/09 19:22	lwitry	Q44761
Benzene	19000	µg/L	1000	44	1000	8260B	09/28/09 19:22	lwitry	Q44761
Ethylbenzene	4100	µg/L	1000	85	1000	8260B	09/28/09 19:22	lwitry	Q44761
m,p-Xylenes	16000	µg/L	2000	130	1000	8260B	09/28/09 19:22	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1000	110	1000	8260B	09/28/09 19:22	lwitry	Q44761
Naphthalene	BRL	µg/L	1000	230	1000	8260B	09/28/09 19:22	lwitry	Q44761
o-Xylene	7200	µg/L	1000	59	1000	8260B	09/28/09 19:22	lwitry	Q44761
Toluene	51000	µg/L	1000	64	1000	8260B	09/28/09 19:22	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	106	74 - 133
Bromofluorobenzene	110	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	1.3	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:13	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-5
Prism Sample ID 258242
COC Group: G0909509
Time Collected: 09/15/09 11:03
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-6
Prism Sample ID 258243
COC Group: G0909509
Time Collected: 09/15/09 11:17
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/30/09 15:53	jvogel	Q44965
Sample Preparation:			33.24 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	85	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 13:57	lwitry	Q44761
Benzene	84	µg/L	1.0	0.044	1	8260B	09/28/09 13:57	lwitry	Q44761
Ethylbenzene	19	µg/L	1.0	0.085	1	8260B	09/28/09 13:57	lwitry	Q44761
m,p-Xylenes	55	µg/L	2.0	0.13	1	8260B	09/28/09 13:57	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 13:57	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/28/09 13:57	lwitry	Q44761
o-Xylene	13	µg/L	1.0	0.059	1	8260B	09/28/09 13:57	lwitry	Q44761
Toluene	150	µg/L	1.0	0.064	1	8260B	09/28/09 13:57	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	114	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.041	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:30	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-6
Prism Sample ID 258243
COC Group: G0909509
Time Collected: 09/15/09 11:17
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
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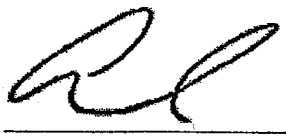

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-8
Prism Sample ID 258244
COC Group: G0909509
Time Collected: 09/15/09 11:33
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.022	0.0059	1	8011	09/29/09 20:24	jvogel	Q44965
Sample Preparation:			32.24 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	95	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 14:29	lwitry	Q44761
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/28/09 14:29	lwitry	Q44761
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/28/09 14:29	lwitry	Q44761
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/28/09 14:29	lwitry	Q44761
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 14:29	lwitry	Q44761
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/28/09 14:29	lwitry	Q44761
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/28/09 14:29	lwitry	Q44761
Toluene	1.1	µg/L	1.0	0.064	1	8260B	09/28/09 14:29	lwitry	Q44761

Surrogate	% Recovery	Control Limits
Toluene-d8	97	75 - 121
Dibromofluoromethane	105	74 - 133
Bromofluorobenzene	112	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.28	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:38	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-8
Prism Sample ID 258244
COC Group: G0909509
Time Collected: 09/15/09 11:33
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-10
Prism Sample ID 258245
COC Group: G0909509
Time Collected: 09/15/09 11:55
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 20:52	jvogel	Q44965
Sample Preparation:			33.35 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	109	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 1:34	lwitry	Q44763
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 1:34	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 1:34	lwitry	Q44763
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 1:34	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 1:34	lwitry	Q44763
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 1:34	lwitry	Q44763
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 1:34	lwitry	Q44763
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 1:34	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	98	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	0.23	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:45	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-10
Prism Sample ID 258245
COC Group: G0909509
Time Collected: 09/15/09 11:55
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-11
Prism Sample ID 258246
COC Group: G0909509
Time Collected: 09/15/09 12:07
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 21:20	jvogel	Q44965
Sample Preparation:			32.88 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	115	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/26/09 2:00	lwitry	Q44763
Benzene	BRL	µg/L	1.0	0.044	1	8260B	09/26/09 2:00	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/26/09 2:00	lwitry	Q44763
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	09/26/09 2:00	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/26/09 2:00	lwitry	Q44763
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	09/26/09 2:00	lwitry	Q44763
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	09/26/09 2:00	lwitry	Q44763
Toluene	BRL	µg/L	1.0	0.064	1	8260B	09/26/09 2:00	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	99	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	98	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.016	mg/L	0.0050	0.00095	1	6010B	09/21/09 20:53	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-11
Prism Sample ID 258246
COC Group: G0909509
Time Collected: 09/15/09 12:07
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
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NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-12
Prism Sample ID: 258247
COC Group: G0909509
Time Collected: 09/15/09 12:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	**3.6**	µg/L	0.10	0.027	5	8011	09/30/09 17:17	jvogel	Q44965
Sample Preparation:				33.56 mL /	2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	106	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	**55**	µg/L	10	0.72	10	8260B	09/26/09 2:54	lwitry	Q44763
Benzene	**950**	µg/L	10	0.44	10	8260B	09/26/09 2:54	lwitry	Q44763
Ethylbenzene	**1100**	µg/L	100	8.5	100	8260B	09/28/09 17:14	lwitry	Q44763
m,p-Xylenes	**3300**	µg/L	200	13	100	8260B	09/28/09 17:14	lwitry	Q44763
Methyl t-butyl ether (MTBE)	**38**	µg/L	10	1.1	10	8260B	09/26/09 2:54	lwitry	Q44763
Naphthalene	**320**	µg/L	10	2.3	10	8260B	09/26/09 2:54	lwitry	Q44763
o-Xylene	**1600**	µg/L	100	5.9	100	8260B	09/28/09 17:14	lwitry	Q44763
Toluene	**2200**	µg/L	100	6.4	100	8260B	09/28/09 17:14	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	105	75 - 121
Dibromofluoromethane	108	74 - 133
Bromofluorobenzene	104	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	**See Attached**				1	8260B			

* Analysis Note for Subcontract Report: The analysis for the 8 Oxygenates by Method 8260 subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	**0.023**	mg/L	0.0050	0.00095	1	6010B	09/21/09 21:01	heasler	Q44653
Sample Preparation:				50 mL /	50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID MW-12
Prism Sample ID 258247
COC Group: G0909509
Time Collected: 09/15/09 12:15
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID VMW-1
Prism Sample ID 258248
COC Group: G0909509
Time Collected: 09/15/09 12:40
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	09/29/09 22:16	jvogel	Q44965
Sample Preparation:			33.09 mL /		2 mL	8011	09/29/09 9:00	Jvogel	P25728

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	120	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	09/28/09 16:47	lwitry	Q44763
Benzene	7.0	µg/L	1.0	0.044	1	8260B	09/28/09 16:47	lwitry	Q44763
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	09/28/09 16:47	lwitry	Q44763
m,p-Xylenes	4.4	µg/L	2.0	0.13	1	8260B	09/28/09 16:47	lwitry	Q44763
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	09/28/09 16:47	lwitry	Q44763
Naphthalene	1.6	µg/L	1.0	0.23	1	8260B	09/28/09 16:47	lwitry	Q44763
o-Xylene	2.0	µg/L	1.0	0.059	1	8260B	09/28/09 16:47	lwitry	Q44763
Toluene	9.7	µg/L	1.0	0.064	1	8260B	09/28/09 16:47	lwitry	Q44763

Surrogate	% Recovery	Control Limits
Toluene-d8	96	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	97	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	BRL	mg/L	0.0050	0.00095	1	6010B	09/21/09 21:08	heasler	Q44653
Sample Preparation:			50 mL /		50 mL	3010A	09/21/09 7:30	dsullivan	P25609

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
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Laboratory Report

10/06/09

Blue Ridge Environmental Services
Attn Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID VMW-1
Prism Sample ID 258248
COC Group: G0909509
Time Collected: 09/15/09 12:40
Time Submitted: 09/18/09 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Metals by ICP, method 6010B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Lead	0.0006	0.005	<0.0025	mg/L	Q44653

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Lead	0.2577	0.25	mg/L	103	80-120	Q44653

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258238 Lead	0.2929	0.25	mg/L	102	75-125	Q44653

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258238 Lead	0.3001	0.25	mg/L	105	75-125	2	0 - 20	Q44653

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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44761
Benzene	ND	1	<0.5	µg/L	Q44761
Ethylbenzene	ND	1	<0.5	µg/L	Q44761
m,p-Xylenes	ND	2	<1	µg/L	Q44761
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q44761
Naphthalene	ND	1	<0.5	µg/L	Q44761
o-Xylene	ND	1	<0.5	µg/L	Q44761
Toluene	ND	1	<0.5	µg/L	Q44761

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	56.25	50	µg/L	113	77-131	Q44761
Benzene	54.28	50	µg/L	109	70-141	Q44761
Ethylbenzene	56.98	50	µg/L	114	80-139	Q44761
m,p-Xylenes	114.88	100	µg/L	115	82-136	Q44761
Methyl t-butyl ether (MTBE)	54.11	50	µg/L	108	70-130	Q44761
Naphthalene	51.04	50	µg/L	102	40-136	Q44761
o-Xylene	55.74	50	µg/L	111	73-134	Q44761
Toluene	49.31	50	µg/L	99	78-130	Q44761

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258148	1,2-Dichloroethane	566.5	500	µg/L	113	67-143	Q44761
	Benzene	523.1	500	µg/L	105	62-129	Q44761
	Ethylbenzene	522.8	500	µg/L	105	58-133	Q44761
	m,p-Xylenes	1065.6	1000	µg/L	107	59-137	Q44761
	Methyl t-butyl ether (MTBE)	554.4	500	µg/L	111	70-130	Q44761
	Naphthalene	505.2	500	µg/L	101	54-127	Q44761
	o-Xylene	531.6	500	µg/L	106	65-129	Q44761
	Toluene	467.8	500	µg/L	94	60-131	Q44761

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258148	1,2-Dichloroethane	541.8	500	µg/L	108	67-143	4	0 - 22	Q44761
	Benzene	518.3	500	µg/L	104	62-129	1	0 - 19	Q44761
	Ethylbenzene	501.7	500	µg/L	100	58-133	4	0 - 22	Q44761
	m,p-Xylenes	1025.7	1000	µg/L	103	59-137	4	0 - 20	Q44761

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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258148 Methyl t-butyl ether (MTBE)	532.3	500	µg/L	106	70-130	4	0 - 20	Q44761
Naphthalene	497.9	500	µg/L	100	54-127	1	0 - 24	Q44761
o-Xylene	507.9	500	µg/L	102	65-129	5	0 - 21	Q44761
Toluene	457.6	500	µg/L	92	60-131	2	0 - 21	Q44761

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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q44763
Benzene	ND	1	<0.5	µg/L	Q44763
Ethylbenzene	ND	1	<0.5	µg/L	Q44763
m,p-Xylenes	ND	2	<1	µg/L	Q44763
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q44763
Naphthalene	ND	1	<0.5	µg/L	Q44763
o-Xylene	ND	1	<0.5	µg/L	Q44763
Toluene	ND	1	<0.5	µg/L	Q44763

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	54.56	50	µg/L	109	77-131	Q44763
Benzene	53.69	50	µg/L	107	70-141	Q44763
Ethylbenzene	52.85	50	µg/L	106	80-139	Q44763
m,p-Xylenes	107.39	100	µg/L	107	82-136	Q44763
Methyl t-butyl ether (MTBE)	51.71	50	µg/L	103	70-130	Q44763
Naphthalene	50.11	50	µg/L	100	40-136	Q44763
o-Xylene	52.47	50	µg/L	105	73-134	Q44763
Toluene	52.92	50	µg/L	106	78-130	Q44763

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258653	1,2-Dichloroethane	564.1	500	µg/L	113	67-143	Q44763
	Benzene	550.6	500	µg/L	110	62-129	Q44763
	Ethylbenzene	534.3	500	µg/L	107	58-133	Q44763
	m,p-Xylenes	1085.6	1000	µg/L	109	59-137	Q44763
	Methyl t-butyl ether (MTBE)	529.6	500	µg/L	106	70-130	Q44763
	Naphthalene	530.8	500	µg/L	106	54-127	Q44763
	o-Xylene	533.2	500	µg/L	107	65-129	Q44763
	Toluene	540.4	500	µg/L	108	60-131	Q44763

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258653	1,2-Dichloroethane	537	500	µg/L	107	67-143	5	0 - 22	Q44763
	Benzene	529.7	500	µg/L	106	62-129	4	0 - 19	Q44763
	Ethylbenzene	523.7	500	µg/L	105	58-133	2	0 - 22	Q44763
	m,p-Xylenes	1062.6	1000	µg/L	106	59-137	2	0 - 20	Q44763

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Level II QC Report

10/6/09

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0909509
Date/Time Submitted: 9/18/09 10:35

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258653 Methyl t-butyl ether (MTBE)	506.6	500	µg/L	101	70-130	4	0 - 20	Q44763
Naphthalene	514.9	500	µg/L	103	54-127	3	0 - 24	Q44763
o-Xylene	521.3	500	µg/L	104	65-129	2	0 - 21	Q44763
Toluene	522.4	500	µg/L	104	60-131	3	0 - 21	Q44763

EDB and DBCP by Microextraction/GC-ECD, method 8011

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dibromoethane (EDB)	ND	0.02	<0.01	µg/L	Q44965

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dibromoethane (EDB)	0.287	0.25	µg/L	115	60-140	Q44965

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
258246 1,2-Dibromoethane (EDB)	0.258	0.25	µg/L	103	60-140	Q44965

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
258246 1,2-Dibromoethane (EDB)	0.274	0.25	µg/L	110	60-140	6	0 - 20	Q44965

#-See Case Narrative

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ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
G0909509

LABORATORY REPORT NUMBER
209092104

DATE
09/28/2009

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/28/2009

GCAL Report 209092104

Deliver To Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224
706-529-6364

Attn Angie Overcash

Project G0909509

CASE NARRATIVE

Client: Prism Laboratories, Inc. **Report:** 209092104

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B - Gas Additives analysis, samples 20909210401 (MW-1), 20909210405 (MW-5), 20909210406 (MW-6), and 20909210410 (MW-12) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Robyn Migues
Technical Director
GCAL REPORT 209092104

THIS REPORT CONTAINS 21 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20
20909210403	MW-16	Water	09/15/2009 10:32	09/19/2009 09:20
20909210404	MW-17	Water	09/15/2009 10:46	09/19/2009 09:20
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20
20909210407	MW-8	Water	09/15/2009 11:33	09/19/2009 09:20
20909210408	MW-10	Water	09/15/2009 11:50	09/19/2009 09:20
20909210409	MW-11	Water	09/15/2009 12:07	09/19/2009 09:20
20909210410	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20
20909210411	VMW-1	Water	09/15/2009 12:40	09/19/2009 09:20

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210401	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	1080	400	312	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210402	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	176	20.0	15.6	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	321	100	10.6	ug/L
75-85-4	tert-amyl alcohol (TAA)	7950	400	312	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	1110	100	78.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210410	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	25.6	25.0	2.65	ug/L
75-85-4	tert-amyl alcohol (TAA)	812	100	78.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104013	MW-1	Water	09/15/2009 09:50	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/22/2009 01:20	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	1190U	20000	1190	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.18U	100	5.18	ug/L
108-20-3	diisopropyl Ether (DIPE)	10.6U	100	10.6	ug/L
624-95-3	ethyl tert-butanol (ETBA)	111U	2000	111	ug/L
75-65-0	t-Butanol (TBA)	82.4U	200	82.4	ug/L
994-05-8	t-amyl methyl ether (TAME)	6.96U	100	6.96	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1080**	**400**	**312**	**ug/L**
762-75-4	tert-butyl formate (TBF)	7.14U	100	7.14	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1150	ug/L	115	50 - 150
1868-53-7	Dibromofluoromethane	1000	1070	ug/L	107	50 - 150
2037-26-5	Toluene d8	1000	963	ug/L	96	50 - 150
17060-07-0	1,2-Dichloroethane-d4	1000	1040	ug/L	104	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-02	MW-2	Water	09/15/2009 10:15	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 02:54	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**176**	**20.0**	**15.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.9	ug/L	106	50 - 150
1868-53-7	Dibromofluoromethane	50	52	ug/L	104	50 - 150
2037-26-5	Toluene d8	50	46.7	ug/L	93	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	55.9	ug/L	112	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-03	MW-16	Water	09/15/2009 10:32	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 03:18	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	50	53.4	ug/L	107	50 - 150
2037-26-5	Toluene d8	50	48.1	ug/L	96	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-04	MW-17	Water	09/15/2009 10:46	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 03:41	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	50 - 150
1868-53-7	Dibromofluoromethane	50	53.8	ug/L	108	50 - 150
2037-26-5	Toluene d8	50	49.7	ug/L	99	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210405	MW-5	Water	09/15/2009 11:03	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/22/2009 06:04	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	1190U	20000	1190	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.18U	100	5.18	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**321**	**100**	**10.6**	**ug/L**
624-95-3	ethyl tert-butanol (ETBA)	111U	2000	111	ug/L
75-65-0	t-Butanol (TBA)	82.4U	200	82.4	ug/L
994-05-8	t-amyl methyl ether (TAME)	6.96U	100	6.96	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**7950**	**400**	**312**	**ug/L**
762-75-4	tert-butyl formate (TBF)	7.14U	100	7.14	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1130	ug/L	113	50 - 150
1868-53-7	Dibromofluoromethane	1000	1080	ug/L	108	50 - 150
2037-26-5	Toluene d8	1000	881	ug/L	88	50 - 150
17060-07-0	1,2-Dichloroethane-d4	1000	1050	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210406	MW-6	Water	09/15/2009 11:17	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/25/2009 23:11	SLR	418993

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	298U	5000	298	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.30U	25.0	1.30	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.65U	25.0	2.65	ug/L
624-95-3	ethyl tert-butanol (ETBA)	27.8U	500	27.8	ug/L
75-65-0	t-Butanol (TBA)	20.6U	50.0	20.6	ug/L
994-05-8	t-amyl methyl ether (TAME)	1.74U	25.0	1.74	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1110**	**100**	**78.0**	**ug/L**
762-75-4	tert-butyl formate (TBF)	1.79U	25.0	1.79	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	249	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	250	256	ug/L	102	50 - 150
2037-26-5	Toluene d8	250	258	ug/L	103	50 - 150
17060-07-0	1,2-Dichloroethane-d4	250	238	ug/L	95	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-07	MW-8	Water	09/15/2009 11:33	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 04:27	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	55.9	ug/L	112	50 - 150
2037-26-5	Toluene d8	50	48.3	ug/L	97	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	53.1	ug/L	106	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20909210408	MW-10	Water	09/15/2009 11:50	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 04:53	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	56.1	ug/L	112	50 - 150
2037-26-5	Toluene d8	50	48.7	ug/L	97	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-09	MW-11	Water	09/15/2009 12:07	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 05:17	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	50 - 150
1868-53-7	Dibromofluoromethane	50	54.9	ug/L	110	50 - 150
2037-26-5	Toluene d8	50	47.6	ug/L	95	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-10	MW-12	Water	09/15/2009 12:15	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/22/2009 06:28	WAS	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	298U	5000	298	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.30U	25.0	1.30	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**25.6**	**25.0**	**2.65**	**ug/L**
624-95-3	ethyl tert-butanol (ETBA)	27.8U	500	27.8	ug/L
75-65-0	t-Butanol (TBA)	20.6U	50.0	20.6	ug/L
994-05-8	t-amyl methyl ether (TAME)	1.74U	25.0	1.74	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**812**	**100**	**78.0**	**ug/L**
762-75-4	tert-butyl formate (TBF)	1.79U	25.0	1.79	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	290	ug/L	116	50 - 150
1868-53-7	Dibromofluoromethane	250	273	ug/L	109	50 - 150
2037-26-5	Toluene d8	250	224	ug/L	90	50 - 150
17060-07-0	1,2-Dichloroethane-d4	250	263	ug/L	105	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209092104-11	VMW-1	Water	09/16/2009 12:40	09/19/2009 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/22/2009 05:40	SLR	418719

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	50 - 150
1868-53-7	Dibromofluoromethane	50	54.8	ug/L	110	50 - 150
2037-26-5	Toluene d8	50	47.6	ug/L	95	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 418719	Client ID	MB418719			LCS418719			LCSD418719			
Prep Batch N/A	GCAL ID	760861			760862			760863			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	09/21/2009 23:00			09/21/2009 20:52			09/21/2009 21:27			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	56.3	113	50 - 150	55.9	112	0.7	50
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	56.3	113	50 - 150	55.5	111	1	50
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	54.6	109	50 - 150	53.1	106	3	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	56.3	113	50 - 150	54.9	110	3	50
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2420	95	50 - 150	2380	93	2	50
64-17-5	Ethanol	59.5U	59.5	25200	29200	116	50 - 150	23300	92	22	50
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	215	108	50 - 150	208	104	3	50
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	56.6	113	50 - 150	54.6	109	4	50
Surrogate											
460-00-4	4-Bromofluorobenzene	51.2	102	50	51	102	50 - 150	51.8	104		
1868-53-7	Dibromofluoromethane	54.1	108	50	51.5	103	50 - 150	51.3	103		
2037-26-5	Toluene d8	50.4	101	50	47.1	94	50 - 150	46.4	93		
17060-07-0	1,2-Dichloroethane-d4	51.8	104	50	51.6	103	50 - 150	51.9	104		

Analytical Batch 418719	Client ID	MW-1			760518MS			760518MSD			
Prep Batch N/A	GCAL ID	20909210401			761017			761018			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/22/2009 01:20			09/22/2009 01:44			09/22/2009 02:07			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.00	6.96	1000	1280	128	50 - 150	1200	120	6	50
75-65-0	t-Butanol (TBA)	0.00	82.4	1000	1460	146	50 - 150	1170	117	22	50
108-20-3	diisopropyl Ether (DIPE)	0.00	10.6	1000	1210	121	50 - 150	1160	116	4	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.00	5.18	1000	1230	123	50 - 150	1200	120	2	50
624-95-3	ethyl tert-butanol (ETBA)	0.00	111	51000	51200	100	50 - 150	43800	86	16	50
64-17-5	Ethanol	0.00	1190	504000	623000	124	50 - 150	547000	109	13	50
75-85-4	tert-amyl alcohol (TAA)	1080	312	4000	6630	139	50 - 150	5610	113	17	50
762-75-4	tert-butyl formate (TBF)	0.00	7.14	1000	1230	123	50 - 150	1210	121	2	50
Surrogate											
460-00-4	4-Bromofluorobenzene	1150	115	1000	1110	111	50 - 150	1090	109		
1868-53-7	Dibromofluoromethane	1070	107	1000	1030	103	50 - 150	1030	103		

GC/MS Volatiles Quality Control Summary

Analytical Batch 418719 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MW-1 20909210401 SAMPLE 09/22/2009 01:20 Water	760518MS 761017 MS 09/22/2009 01:44 Water	760518MSD 761018 MSD 09/22/2009 02:07 Water

SW-846 8260B		Units	ug/L	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
2037-26-5	Toluene d8	963	96	1000	882	88	50 - 150	879	88		
17060-07-0	1,2-Dichloroethane-d4	1040	104	1000	1070	107	50 - 150	1040	104		

Analytical Batch 418993 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB418993 762461 Method Blank 09/25/2009 17:43 Water	LCS418993 762462 LCS 09/25/2009 16:55 Water

SW-846 8260B		Units	ug/L Result	Spike Added	Result	% R	Control Limits % R
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	55.7	111	50 - 150
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	46.9	94	50 - 150
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	53.6	107	50 - 150
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	54.0	108	50 - 150
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2330	91	50 - 150
64-17-5	Ethanol	59.5U	59.5	25200	27700	110	50 - 150
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	196	98	50 - 150
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	52.6	105	50 - 150
Surrogate							
460-00-4	4-Bromofluorobenzene	48.8	98	50	51	102	50 - 150
1868-53-7	Dibromofluoromethane	52.5	105	50	50.1	100	50 - 150
2037-26-5	Toluene d8	52.4	105	50	49.4	99	50 - 150
17060-07-0	1,2-Dichloroethane-d4	48.2	96	50	50.1	100	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 418993 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	151781 20909234411 SAMPLE 09/25/2009 20:27 Water			761375MS 762635 MS 09/25/2009 21:14 Water			761375MSD 762636 MSD 09/25/2009 21:37 Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
994-05-8	t-amyl methyl ether (TAME)	0.00	17.4	2500	2670	107	50 - 150	2780	111	4	50
75-65-0	t-Butanol (TBA)	0.00	206	2500	2690	108	50 - 150	2600	104	3	50
108-20-3	diisopropyl Ether (DIPE)	0.00	26.5	2500	2490	100	50 - 150	2460	98	1	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.00	13.0	2500	2550	102	50 - 150	2530	101	0.8	50
624-95-3	ethyl tert-butanol (ETBA)	0.00	278	128000	132000	104	50 - 150	117000	92	12	50
64-17-5	Ethanol	0.00	2980	1260000	1360000	108	50 - 150	1320000	105	3	50
75-85-4	tert-amyl alcohol (TAA)	3100	780	10000	12100	90	50 - 150	11900	88	2	50
762-75-4	tert-butyl formate (TBF)	0.00	17.9	2500	2510	100	50 - 150	2480	99	1	50
Surrogate											
460-00-4	4-Bromofluorobenzene			2500	2550	102	50 - 150	2490	100		
1868-53-7	Dibromofluoromethane			2500	2520	101	50 - 150	2500	100		
2037-26-5	Toluene d8			2500	2500	100	50 - 150	2410	96		
17060-07-0	1,2-Dichloroethane-d4			2500	2520	101	50 - 150	2560	102		

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: Prism Labs, Inc.
Report To/Contact Name: Angie Driscoll
Reporting Address:

Phone: Fax (Yes) (No):
Email (Yes) (No) Email Address:
EDD Type: PDF Excel Other
Site Location Name:
Site Location Physical Address:

Project Name: Goldsboro
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To:
Address:

Purchase Order No./Billing Reference
Requested Due Date: 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 3-9 Days Standard 12 days. Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.7	✓		
PROPER PRESERVATIVES checked?	✓		
Received WITH-IN HOLDING TIMES?	✓		
CUSTODY SEALS in ACT?	✓		
VOLATILES rec'd WOUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ____ USACE ____ FL ____ NC ____
SC X OTHER ____ N/A ____
Water Chlorinated: YES ____ NO ____
Sample Iced Upon Collection: YES ____ NO ____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED (Composite)	REMARKS	PRISM LAB ID NO.
MW-1	9/15/09	09:50	GW	VOA	2	40ml	HCL	X	258278	1
MW-2		10:15						X	258279	2
MW-16		10:32						X	258280	3
MW-17		10:46						X	258281	4
MW-5		11:03						X	258282	5
MW-6		11:17						X	258283	6
MW-8		11:33						X	258284	7
MW-10		11:50						X	258285	8
MW-11		12:07						X	258286	9
MW-12		12:25						X	258287	10
VMW-1		12:40						X	258288	11

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Sampled By (Print Name): Affiliation:

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature) Fed Ex	Date 9/18/09	Military Time
Relinquished By: (Signature) Fed Ex	Received By: (Signature)	Date	
Relinquished By: (Signature) Fed Ex	Received For Prism Laboratories By:	Date 9/18/09	Time 0920

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

FedEx UPS Hand-delivered Prism Courier Other

COC Seal(s): Intact: Broken: Missing: N/A

Additional Comments: 4.7°C

PRISM USE ONLY

Site Arrive Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES: NC SC
UST: NC SC
GROUNDWATER: NC (SC)
DRINKING WATER: NC SC
SOLID WASTE: NC SC
RCRA: NC SC
CERCLA: NC SC
LANDFILL: NC SC
OTHER: NC SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

SC

SHELBY, N.C. 28152
704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 16880

LAB: Prism

SAMPLERS: Matt Ainge

PROJECT MANAGER: Ken Pimienta

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX + Naph + MTBE 8260B	1,2 DCA 8260B	8 oxygenates 8260B	Lead 8011	EDB		REMARKS
MW-1	9/15/09	9:50		✓	Groundwater Sample		10	✓	✓	✓	✓			258238
MW-2		1015		✓				✓	✓	✓	✓			258239
MW-~~8~~ KP 16		1032		✓				✓	✓	✓	✓			258240
MW-~~8~~ KP 17		1046		✓				✓	✓	✓	✓			258241
MW-5		1103		✓				✓	✓	✓	✓			258242
MW-6		1117		✓				✓	✓	✓	✓			258243
MW-8		1133		✓				✓	✓	✓	✓			258244
MW-10		1150		✓				✓	✓	✓	✓			258245
MW-11		1207		✓				✓	✓	✓	✓			258246
MW-12		1215		✓				✓	✓	✓	✓			258247
VMW-1		1240		✓				✓	✓	✓	✓			258248

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
[signature]	9-18-09	1035	[signature]	9/18/09	1035
RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:

X:\MISC\CHAIN1.vcd 1/31

Temp 5.2°

G0909509

Book

PRISM LABORATORIES, INC.

Case Narrative

Date:	11/13/09	**Client Project ID:**	Rhodes Service Station
Company:	Blue Ridge Environmental Services	**Prism COC Group No:**	G1009793
Contact:	Matt Ainge	**Collection Date(s):**	10/28/09
Address:	2315 Kings Road Extension Shelby, NC 28152	**Lab Submittal Date(s):**	10/28/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report , Quality Control and a Subcontracted Laboratory Report with corresponding Chain-of-Custody totaling 23 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

The 8 Oxygenate analysis by Method 8260 subcontracted to GCAL. Laboratory report is attached.

Metals Analysis

No Anomalies Reported

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by:	Robbi A. Jones	**Project Manager:**	Angela D. Overcash
Signature:	Robbi A. Jones	**Signature:**	Robbi Jones for A. Overcash
Review Date:	11/13/09	**Approval Date:**	11/13/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

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PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 262223
COC Group: G1009793
Time Collected: 10/28/09 12:56
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0056	1	8011	11/11/09 18:29	jvogel	Q45886
Sample Preparation:				33.5 mL /	2 mL	8011	11/11/09 9:00	Jvogel	P26036

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	83	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	100	7.2	100	8260B	11/05/09 7:22	lwitry	Q45662
Benzene	BRL	µg/L	100	4.4	100	8260B	11/05/09 7:22	lwitry	Q45662
Ethylbenzene	4400	µg/L	100	8.5	100	8260B	11/05/09 7:22	lwitry	Q45662
n,p-Xylenes	12000	µg/L	200	13	100	8260B	11/05/09 7:22	lwitry	Q45662
Methyl t-butyl ether (MTBE)	BRL	µg/L	100	11	100	8260B	11/05/09 7:22	lwitry	Q45662
Naphthalene	360	µg/L	100	23	100	8260B	11/05/09 7:22	lwitry	Q45662
o-Xylene	4400	µg/L	100	5.9	100	8260B	11/05/09 7:22	lwitry	Q45662
Toluene	8700	µg/L	100	6.4	100	8260B	11/05/09 7:22	lwitry	Q45662

Surrogate	% Recovery	Control Limits
Toluene-d8	100	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	102	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: The 8 Oxygenate Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.026	mg/L	0.0050	0.00095	1	6010B	11/04/09 19:21	heasler	Q45672
Sample Preparation:				50 mL /	50 mL	3010A	11/04/09 7:40	dsullivan	P25963

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NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 262223
COC Group: G1009793
Time Collected: 10/28/09 12:56
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM
Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-18
Prism Sample ID: 262224
COC Group: G1009793
Time Collected: 10/28/09 13:09
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0057	1	8011	11/11/09 18:57	jvogel	Q45886
Sample Preparation:				33 mL /	2 mL	8011	11/11/09 9:00	Jvogel	P26036

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	83	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	11/05/09 15:21	lwitry	Q45662
Benzene	BRL	µg/L	1.0	0.044	1	8260B	11/05/09 15:21	lwitry	Q45662
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	11/05/09 15:21	lwitry	Q45662
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	11/05/09 15:21	lwitry	Q45662
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	11/05/09 15:21	lwitry	Q45662
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	11/05/09 15:21	lwitry	Q45662
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	11/05/09 15:21	lwitry	Q45662
Toluene	BRL	µg/L	1.0	0.064	1	8260B	11/05/09 15:21	lwitry	Q45662

Surrogate	% Recovery	Control Limits
Toluene-d8	101	75 - 121
Dibromofluoromethane	101	74 - 133
Bromofluorobenzene	104	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: The 8 Oxygenate Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	BRL	mg/L	0.0050	0.00095	1	6010B	11/04/09 19:29	heasler	Q45672
Sample Preparation:				50 mL /	50 mL	3010A	11/04/09 7:40	dsullivan	P25963

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PRISM
Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-18
Prism Sample ID: 262224
COC Group: G1009793
Time Collected: 10/28/09 13:09
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-19
Prism Sample ID: 262225
COC Group: G1009793
Time Collected: 10/28/09 13:20
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0056	1	8011	11/11/09 19:24	jvogel	Q45886
Sample Preparation:				33.47 mL /	2 mL	8011	11/11/09 9:00	Jvogel	P26036

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	76	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	11/05/09 15:52	lwitry	Q45662
Benzene	BRL	µg/L	1.0	0.044	1	8260B	11/05/09 15:52	lwitry	Q45662
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	11/05/09 15:52	lwitry	Q45662
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	11/05/09 15:52	lwitry	Q45662
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	11/05/09 15:52	lwitry	Q45662
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	11/05/09 15:52	lwitry	Q45662
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	11/05/09 15:52	lwitry	Q45662
Toluene	BRL	µg/L	1.0	0.064	1	8260B	11/05/09 15:52	lwitry	Q45662

Surrogate	% Recovery	Control Limits
Toluene-d8	101	75 - 121
Dibromofluoromethane	101	74 - 133
Bromofluorobenzene	105	69 - 139

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Subcontract Report	See Attached				1	8260B			

* Analysis Note for Subcontract Report: The 8 Oxygenate Analysis subcontracted to SC certified lab # 73006.

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Metals by ICP									
Lead	0.011	mg/L	0.0050	0.00095	1	6010B	11/04/09 19:37	heasler	Q45672
Sample Preparation:				50 mL /	50 mL	3010A	11/04/09 7:40	dsullivan	P25963

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-19
Prism Sample ID: 262225
COC Group: G1009793
Time Collected: 10/28/09 13:20
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM
...ll Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-13
Prism Sample ID: 262226
COC Group: G1009793
Time Collected: 10/28/09 13:30
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	**0.21**	µg/L	0.021	0.0056	1	8011	11/11/09 19:52	jvogel	Q45886
Sample Preparation:				33.83 mL /	2 mL	8011	11/11/09 9:00	Jvogel	P26036

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	77	70 - 130

Volatile Organic Compounds by GC/MS									
1,2-Dichloroethane	**20**	µg/L	1.0	0.072	1	8260B	11/05/09 16:24	lwitry	Q45662
Benzene	**BRL**	µg/L	1.0	0.044	1	8260B	11/05/09 16:24	lwitry	Q45662
Ethylbenzene	**4.1**	µg/L	1.0	0.085	1	8260B	11/05/09 16:24	lwitry	Q45662
m,p-Xylenes	**29**	µg/L	2.0	0.13	1	8260B	11/05/09 16:24	lwitry	Q45662
Methyl t-butyl ether (MTBE)	**BRL**	µg/L	1.0	0.11	1	8260B	11/05/09 16:24	lwitry	Q45662
Naphthalene	**BRL**	µg/L	1.0	0.23	1	8260B	11/05/09 16:24	lwitry	Q45662
o-Xylene	**20**	µg/L	1.0	0.059	1	8260B	11/05/09 16:24	lwitry	Q45662
Toluene	**BRL**	µg/L	1.0	0.064	1	8260B	11/05/09 16:24	lwitry	Q45662

Surrogate	% Recovery	Control Limits
Toluene-d8	100	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	100	69 - 139

Volatile Organic Compounds by GC/MS									
Subcontract Report	**See Attached**				1	8260B			

* Analysis Note for Subcontract Report: The 8 Oxygenate Analysis subcontracted to SC certified lab # 73006.

Metals by ICP									
Lead	**0.24**	mg/L	0.0050	0.00095	1	6010B	11/04/09 19:42	heasler	Q45672
Sample Preparation:				50 mL /	50 mL	3010A	11/04/09 7:40	dsullivan	P25963

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PRISM
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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: MW-13
Prism Sample ID: 262226
COC Group: G1009793
Time Collected: 10/28/09 13:30
Time Submitted: 10/28/09 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM
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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

11/13/2009

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G1009793
Date/Time Submitted: 10/28/20 17:35

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q45662
Benzene	ND	1	<0.5	µg/L	Q45662
Ethylbenzene	ND	1	<0.5	µg/L	Q45662
m,p-Xylenes	ND	2	<1	µg/L	Q45662
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q45662
Naphthalene	ND	1	<0.5	µg/L	Q45662
o-Xylene	ND	1	<0.5	µg/L	Q45662
Toluene	ND	1	<0.5	µg/L	Q45662

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dichloroethane	57	50	µg/L	114	77-131	Q45662
Benzene	62.67	50	µg/L	125	70-141	Q45662
Ethylbenzene	57.54	50	µg/L	115	80-139	Q45662
m,p-Xylenes	107.87	100	µg/L	108	82-136	Q45662
Methyl t-butyl ether (MTBE)	56	50	µg/L	112	70-130	Q45662
Naphthalene	49.52	50	µg/L	99	40-136	Q45662
o-Xylene	49.33	50	µg/L	99	73-134	Q45662
Toluene	59.29	50	µg/L	119	78-130	Q45662

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
262349	1,2-Dichloroethane	563.6	500	µg/L	113	67-143	Q45662
	Benzene	621	500	µg/L	124	62-129	Q45662
	Ethylbenzene	572.4	500	µg/L	114	58-133	Q45662
	m,p-Xylenes	1074.2	1000	µg/L	107	59-137	Q45662
	Methyl t-butyl ether (MTBE)	565.2	500	µg/L	113	70-130	Q45662
	Naphthalene	498.7	500	µg/L	100	54-127	Q45662
	o-Xylene	486.2	500	µg/L	97	65-129	Q45662
	Toluene	585.9	500	µg/L	117	60-131	Q45662

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
262349	1,2-Dichloroethane	562.9	500	µg/L	113	67-143	0	0 - 22	Q45662
	Benzene	612.6	500	µg/L	123	62-129	1	0 - 19	Q45662
	Ethylbenzene	551.1	500	µg/L	110	58-133	4	0 - 22	Q45662
	m,p-Xylenes	1048.2	1000	µg/L	105	59-137	2	0 - 20	Q45662

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

11/13/2009

Blue Ridge Environmental Services
Attn: Matt Ainge
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G1009793
Date/Time Submitted: 10/28/20 17:35

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
262349 Methyl t-butyl ether (MTBE)	574.9	500	µg/L	115	70-130	2	0 - 20	Q45662
Naphthalene	484.1	500	µg/L	97	54-127	3	0 - 24	Q45662
o-Xylene	476	500	µg/L	95	65-129	2	0 - 21	Q45662
Toluene	576.2	500	µg/L	115	60-131	2	0 - 21	Q45662

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Lead	0.0003	0.005	<0.0025	mg/L	Q45672

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Lead	0.2447	0.25	mg/L	98	80-120	Q45672

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
262138 Lead	0.2443	0.25	mg/L	97	75-125	Q45672

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
262138 Lead	0.2401	0.25	mg/L	96	75-125	2	0 - 20	Q45672

EDB and DBCP by Microextraction/GC-ECD, method 8011

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dibromoethane (EDB)	ND	0.02	<0.01	µg/L	Q45886

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dibromoethane (EDB)	0.281	0.25	µg/L	112	60-140	Q45886

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
262159 1,2-Dibromoethane (EDB)	0.241	0.25	µg/L	96	60-140	Q45886

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
262159 1,2-Dibromoethane (EDB)	0.262	0.25	µg/L	105	60-140	8	0 - 20	Q45886

#-See Case Narrative

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
G1009793

LABORATORY REPORT NUMBER
209110216

DATE
11/06/2009

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 11/06/2009

GCAL Report 209110216

Deliver To	Prism Laboratories, Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364
Attn	Angie Overcash

Project G1009793

CASE NARRATIVE

Client: Prism Laboratories, Inc. **Report:** 209110216

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Robyn Migues
Technical Director
GCAL REPORT 209110216

THIS REPORT CONTAINS 12 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20911021601	MW-3	Water	10/28/2009 12:56	10/31/2009 09:55
20911021602	MW-18	Water	10/28/2009 13:09	10/31/2009 09:55
20911021603	MW-19	Water	10/28/2009 13:20	10/31/2009 09:55
20911021604	MW-13	Water	10/28/2009 13:30	10/31/2009 09:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20911021604	MW-13	Water	10/28/2009 13:30	10/31/2009 09:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	3.69J	5.00	0.529	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20911021601	MW-3	Water	10/28/2009 12:56	10/31/2009 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/05/2009 16:37	CLH	421428

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	50 - 150
1868-53-7	Dibromofluoromethane	50	47.7	ug/L	95	50 - 150
2037-26-5	Toluene d8	50	52.6	ug/L	105	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209110216-02	MW-18	Water	10/28/2009 13:09	10/31/2009 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/05/2009 17:02	CLH	421428

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.5	ug/L	89	50 - 150
1868-53-7	Dibromofluoromethane	50	41.9	ug/L	84	50 - 150
2037-26-5	Toluene d8	50	55.7	ug/L	111	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	39.4	ug/L	79	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
209110216003	MW-19	Water	10/28/2009 13:20	10/31/2009 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/05/2009 17:26	CLH	421428

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.529U	5.00	0.529	ug/L
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	50 - 150
1868-53-7	Dibromofluoromethane	50	45.9	ug/L	92	50 - 150
2037-26-5	Toluene d8	50	54.8	ug/L	110	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	45.1	ug/L	90	50 - 150

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20911021604	MW-13	Water	10/28/2009 13:30	10/31/2009 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/05/2009 17:51	CLH	421428

CAS#	Parameter	Result	RDL	MDL	Units
64-17-5	Ethanol	59.5U	1000	59.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	5.00	0.259	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**3.69J**	**5.00**	**0.529**	**ug/L**
624-95-3	ethyl tert-butanol (ETBA)	5.56U	100	5.56	ug/L
75-65-0	t-Butanol (TBA)	4.12U	10.0	4.12	ug/L
994-05-8	t-amyl methyl ether (TAME)	0.348U	5.00	0.348	ug/L
75-85-4	tert-amyl alcohol (TAA)	15.6U	20.0	15.6	ug/L
762-75-4	tert-butyl formate (TBF)	0.357U	5.00	0.357	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.5	ug/L	105	50 - 150
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	50 - 150
2037-26-5	Toluene d8	50	53.9	ug/L	108	50 - 150
17060-07-0	1,2-Dichloroethane-d4	50	45.8	ug/L	92	50 - 150

GC/MS Volatiles Quality Control Summary

Analytical Batch 421428	Client ID	MB421428			LCS421428			LCSD421428			
Prep Batch N/A	GCAL ID	775413			775414			775415			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	11/05/2009 15:48			11/05/2009 14:32			11/05/2009 14:59			
	Matrix	Water			Water			Water			
SW-846 8260B		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
994-05-8	t-amyl methyl ether (TAME)	0.348U	0.348	50.0	40.6	81	50 - 150	42.7	85	5	50
75-65-0	t-Butanol (TBA)	4.12U	4.12	50.0	41.8	84	50 - 150	45.3	91	8	50
108-20-3	diisopropyl Ether (DIPE)	0.529U	0.529	50.0	43.0	86	50 - 150	44.8	90	4	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.259U	0.259	50.0	45.1	90	50 - 150	46.7	93	3	50
624-95-3	ethyl tert-butanol (ETBA)	5.56U	5.56	2550	2400	94	50 - 150	2710	106	12	50
64-17-5	Ethanol	59.5U	59.5	25200	23800	94	50 - 150	24900	99	5	50
75-85-4	tert-amyl alcohol (TAA)	15.6U	15.6	200	192	96	50 - 150	232	116	19	50
762-75-4	tert-butyl formate (TBF)	0.357U	0.357	50.0	40.7	81	50 - 150	41.5	83	2	50
Surrogate											
460-00-4	4-Bromofluorobenzene	53.2	106	50	49.3	99	50 - 150	51.4	103		
1868-53-7	Dibromofluoromethane	47.1	94	50	47.6	95	50 - 150	48.5	97		
2037-26-5	Toluene d8	51.3	103	50	53.9	108	50 - 150	47.3	95		
17060-07-0	1,2-Dichloroethane-d4	45.9	92	50	49.4	99	50 - 150	48.2	96		

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full-Service Analytical & Environmental Solutions

438 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704-529-6364 • Fax: 704-525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Prism Labs, Inc.
Report To/Contact Name: Steve Arnold, Angie Overcash
Reporting Address: P.O. Box 240543
Charlotte, NC 28224
Phone: (704) 529-6364 Fax (Yes) (No): (704) 926-0409
Email (Yes) (No) Email Address: _____
EDD Type: PDF___ Excel___ Other___
Site Location Name: _____
Site Location Physical Address: _____

Project Name: G1089743
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: _____
Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date: ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-8 Days ☐ Standard 10 days ☐ Rush (Work Must Be Pre-Approved)
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Sample Receipt Temp (°C): 2.0			
Received On Wet Ice?			
Proper Preservative (Yes, Unknown)?			
Received Within Holding Times?			
Custody Seals Intact?			
Volatiles Rec'd Without Headspace?			
Proper Containers Used?			

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ___
SC X OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED Chlorinated	REMARKS	PRISM LAB ID NO.
MW-3	10/28/09	12:56	GW	VOA	2	40ml	HCL	X	262223	1
MW-18		13:05						X	262224	2
MW-19		13:20						X	262225	3
MW-13		13:30						X	262226	4

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) _____ Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date / Military Hours	Additional Comments:
Relinquished By: (Signature)	Received By: (Signature)	Date 10/30/09	
Relinquished By: (Signature)	Received For Prism Laboratories By	Date 10/30/09 0955	GCAL SOC

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

COC Seal No. _____

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Staff on ☐ Other _____

PRISM USE ONLY

Site Arrive Time: _____
Site Departure Time: _____
Field Tech Init: _____
Mileage: _____

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

...E RIDGE ENVIRONMENTAL SERVICES, INC.

SHELBY, N.C. 28152
704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

CHAIN OF CUSTODY

South Carolina

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 16903

LAB: Prism

SAMPLERS: Matt Ange

PROJECT MANAGER: Ken Pimienta

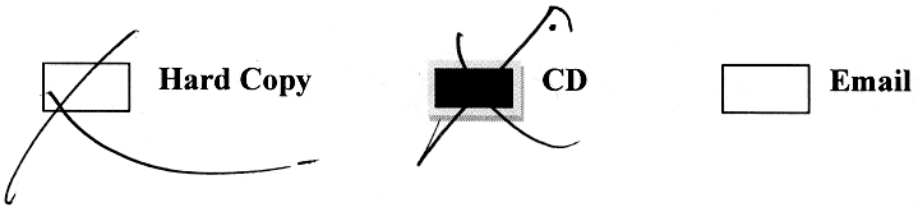
SAMPLE ID:	DATE: 10/30/09	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX Naph MTBE 8260 12 TCA	8 oxygenates 8260B	Lead	EDB 8011			REMARKS
MW-3 MW	10/28/09	1256						X	X	X	X			262223
MW-~~8~~ 18		1309						X	X	X	X			262224
MW-19 MW		1320						X	X	X	X			262225
MW-~~20~~ 13 10/30/09		1330						X	X	X	X			262226

G1009793

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
[signature]	10-27-2009	12:00	Ken Pimienta	10-27-09	1200
Ken Pimienta	10/28/09	17:35	[signature]	10-28-09	17:35

X:\MISC\CHAIN1.vcd 1/31

Document Receipt Information



Date Received 6-22-20

Permit Number 08562

Project Manager Quincy Hoffer

Name of Contractor Blue Ridge Env.

UST Certification Number _____

Docket Number 30 tech

Scanned _____

GLCM - AFVR

MW Replacement

Monitoring Well Replacement & 96-Hour AFVR Report

UST Permit No. 08562
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
Blue Ridge Project No. 17-6023.4

Prepared for:
Odom Oil Company
Attn: Mr. Robert F. Turner
850 Hayne Street
Spartanburg, South Carolina 29301

June 16, 2020

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CONSULTING • ENVIRONMENTAL • GEOLOGY

Prepared by:
Blue Ridge Environmental Services, Inc.
2315 Kings Rd. Extension
Shelby, North Carolina 28152
(P) 704.482.2111
(F) 704.482.4335
BRESI@BlueRidge-ESI.com
SC Contractor: 0095

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095

June 16, 2020

Mr. Quincy Hoffer
South Carolina Department of Health & Environmental Control
Corrective Action and Quality Assurance Section
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

Subject: **Monitoring Well Replacement & 96-Hour AFVR Report**
Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365
UST Permit No. 08562
Cost Agreement No. 61426, UMW-27943
Blue Ridge Project No. 17-6023.4

Dear Mr. Hoffer:

Blue Ridge Environmental Services, Inc. (Blue Ridge) is pleased to present the results of the monitoring well reinstallation activities and the 96-Hour Aggressive Fluid and Vapor Recovery (AFVR) event performed at the above referenced Site (Figure 1). The scope of work was pre-approved under cost agreement number 61426, per correspondence from your office dated April 03, 2020. The locations of the newly installed replacement wells 08562-MW-10R & 08562-MW-13R and all associated monitoring wells with the Site are depicted on Figure 2 – Site Map. The 96-Hour AFVR event monitoring well and recovery wells utilized for extraction are illustrated on Figure 3 – AFVR Site Map.

Introduction

1. UST Facility Name: Rhodes Service Station (Former)
   UST Permit Number: 08562
   Address: 410 Spartanburg Highway, Wellford, South Carolina 29365
   Phone Number: (864) 949-6800

2. UST Owner: Odom Oil Company
   Address: 850 Hayne Street, Spartanburg, South Carolina 29301
   Phone Number: (864)-583-3684

3. UST Operator: N/A
   Address: N/A
   Phone Number: N/A

4. Property Owner Name: Service Oil Company
   Address: P.O. Box 3255, Spartanburg, South Carolina 29304
   Phone Number: 704-941-4394

5. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.
   Address: 2315 Kings Road Ext., Shelby, North Carolina 28152
   SCDHEC Certified Contractor Number: 0095

6. SCDHEC Certified Contractor Name: Blue Ridge Environmental Services, Inc.
   Address: 2315 Kings Road Ext., Shelby, North Carolina 28152
   Phone Number: (704) 607-7529
   SCDHEC Certified Driller Certification Number: 2234

Facility History

The Former Rhodes Service Station (Site) is in Spartanburg County, South Carolina, located at 410 Spartanburg Highway. The Site is located in an area of mixed commercial property within the city limits of Wellford. The location of the Site and surrounding topography is shown on Figure 1. The original Site building and service station was decommissioned and removed at an unknown date. The Site currently consists of a vacant vegetated lot and convenience store/gasoline service station (Citgo) operating adjacent to the original Site location.

According to the South Carolina Department of Health and Environmental Control (SCDHEC), two (2) 4,000-gallon and two (2) 2,000-gallon single walled steel gasoline Underground Storage Tanks (USTs) were previously located at the Site and were reportedly removed on November 11, 1911. The actual installation dates for USTs #1 through #4 are unknown and the location and orientation of the former UST system components at the Site are unknown. A release was reported to SCDHEC on January 24, 1990. The release was caused by a leaking UST system with an unknown quantity of product released. The former UST system is described in detail on the table below titled Former USTs Located On-site.

Former UST's Located On-site

UST #	Product	Date Installed (Year)	Currently in use (Yes or No)	Tank Size	If not in use, Date Removed	Removed (Yes or No)
1	Gasoline	Unknown	No	2,000	11/11/1911[1]	Yes
2	Gasoline	Unknown	No	4,000	11/11/1911	Yes
3	Gasoline	Unknown	No	2,000	11/11/1911	Yes
4	Gasoline	Unknown	No	4,000	11/11/1911	Yes

[1] UST system was installed on an unknown date that is reported as November 11, 1911 by the SCDHEC UST Registry

A Tier I was conducted at the Site by Blue Ridge in 2000. A Tier II "Additional Assessment" to horizontally and vertically define the plume was completed in 2009. Groundwater monitoring events and AFVR events have occurred variously by Blue Ridge since 2009. Two (2) 4-inch recovery wells (08562-RW-1 & 08562-RW-2) were installed in the vicinity of monitoring well, 08562-MW-4, which has historically displayed Free Phase Product (FPP), in April 2018.

Regional Geology and Hydrogeology

The Site is in the Inner Piedmont within the Piedmont Physiographic Province. The Inner Piedmont Belt is characterized by upper amphibolite facies granite gneiss, mica schist, migmatites, and granotoid rocks with low to moderately dipping recumbent folds. The igneous and metamorphic rocks are weathered to saprolite and near the surface to residual soil. Depths and thicknesses of soil and saprolite vary widely, from less than one to hundreds of feet thick; generally, it is thin on ridges and thicker on slopes and broad uplands.

The Piedmont groundwater system is a two-part system consisting of regolith, composed of a granular layer of soil and saprolite and thin, discontinuous alluvial deposits, overlying fractured, crystalline bedrock. Hydraulically, the regolith functions as the reservoir of the system and the bedrock fractures as pipelines that transmit water from the regolith to natural discharge areas. In detail, the regolith consists of a porous and permeable soil zone that grades downward into saprolite, which in turn, grades into unweathered rock. In saprolite, water flows through interstitial pore space while in unweathered rocks, flow is via fractures. Groundwater in the Piedmont occurs in a shallow saturated zone in saprolite and more commonly in a much thicker bedrock "aquifer". Saturated saprolite is hydraulically connected in most areas to the underlying bedrock.

Monitoring Well Reinstallation

On May 12, 2020, Blue Ridge mobilized to the Site to reinstall off-site monitoring wells 08562-MW-10 & 08562-MW-13 to their original dimensions with two (2) replacement permanent monitoring wells 08562-MW-10R and 08562-MW-13R. The original monitoring wells are destroyed and/or buried under mobile, commercial storage units/cabins.

The replacement monitoring well 08562-10R was installed to the original target depth of 30 feet with 20 feet of screen in the most accessible location in the vicinity of the original monitoring well, 08562-MW-10. The replacement monitoring well 08562-13R was installed to the original target depth of 35 feet with 20 feet of screen in the most accessible location in the vicinity of the original monitoring well, 08562-MW-13.

The monitoring well construction records and logs are included as Appendix A. The locations of the newly reinstalled monitoring wells can be seen in Appendix F - Photo Log and all associated monitoring wells with the Site are depicted on Figure 2 – Site Map.

Static water levels were recorded and the length of the water column was calculated prior to developing the replacement monitoring wells. Well development was completed before grouting/well completion on May 12, 2020. Groundwater was developed from the wells until field measurements of pH, specific conductivity, temperature and turbidity stabilized within 10 percent or turbidity was less than or equal to 10 Nephelometric Turbidity Units (NTUs) or the well was pumped dry. Well Development Forms with recorded groundwater elevation data can be viewed as Appendix B.

96-Hour Aggressive Fluid Vapor Recovery Event

On May 18th, 2020 through May 22nd, 2020, after the reinstallation of off-site replacement monitoring wells 08562-MW-10R and 08562-MW-13R, a 96-Hour AFVR event was conducted on monitoring well 08562-MW-4 and recovery wells 08562-RW-1 and 08562-RW-2, located on-site in the former source area. The AFVR event was conducted by Versatile Environmental Resource Company (VERCO) of Columbia, South Carolina.

A slight sheen was observed in the tankers before the effluent was transported off-site. The 96-Hour AFVR event was conducted using off-gas treatment to reduce air emissions and maintained a minimum 80% reduction rate per required interval measurements. The following table provides the duration of the event, total volume of fluids recovered during the 96-hour AFVR event, the total volume of liquid FPP recovered during the event and the amount of calculated gallons of petroleum Volatile Organic Compounds (VOCs) removed as vapors.

Total Volume of Fluids/Emissions Recovered
May 18th, 2020 through May 22nd, 2020

Well ID	Date	Event Duration (hrs.)	Total Volume of Water Recovered (gal)	Total Volume of Liquid Free Phase Product Recovered (gal)	Total Volume of Petroleum Removed as Vapor (gal)
08562-MW-4 08562-RW-1 08562-RW-2	5/18/20 to 5/22/20	96	17,770	0	55.27

Please refer to Appendices C through E for the 96-Hour AFVR Event Summary and Field Data Sheets (airflow and vacuum gauge measurements in surrounding wells), AFVR Data Sheets – Emissions Data & Calculations (Emissions Data & Mass Removal Calculations), and copies of the effluent disposal manifests and weight tickets from the 96-Hour AFVR event conducted. The following table below provides pre-recovery and post-recovery depth to water and depth to product levels in specific on-site AFVR event monitoring wells,

recovery wells and observation wells. The product/water levels were determined using an interface probe and/or water level indicator where applicable. Post product/water levels were obtained after the event was completed. The Contractor Checklist is included as Appendix G.

Pre/Post Event Water Levels
May 18th, 2020 through May 22nd, 2020

Well ID	Initial Stinger Depth (ft.)	Final Stinger Depth (ft.)	Pre-Event			Post-Event		
			DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (ft.)
08562-MW-4*	12	19.50	---	11.82	---	---	15.50	---
08562-RW-1*	12	19.50	---	11.91	---	---	14.45	---
08562-RW-2*	12	19.50	---	11.75	---	---	14.48	---
08562-MW-3	---	---	---	9.98	---	---	10.55	---
08562-MW-5	---	---	---	11.98	---	---	13.85	---

* AFVR Extraction Well

Blue Ridge recommends further 96-Hour AFVR events due to the overall effectiness of FPP removed as liquid and vapor since the commencement of AFVR activites in 2017. Furthermore, a comprehensive Site sampling event is recommended to determine the continued effectiveness of the 96-Hour AFVR events on FPP and contaminant concentration reduction and to determine overall Site conditions and plume migration.

If you have any questions regarding this matter or need further information, please do not hesitate to contact us at (704) 482-2111.

Respectfully submitted,
Blue Ridge Environmental Services, Inc.

Jeffrey R. White
Project Manager

Kenneth A. Pimienta
Senior Project Manager

Cliff R. Lundgren, P.G.
Senior Consultant / President
SC Registration #2045

CC: Mr. Robert F. Turner

Enclosures

Figures
Figure 1 - Topographic Map
Figure 2 - Site Map
Figure 3 - AFVR Site Map

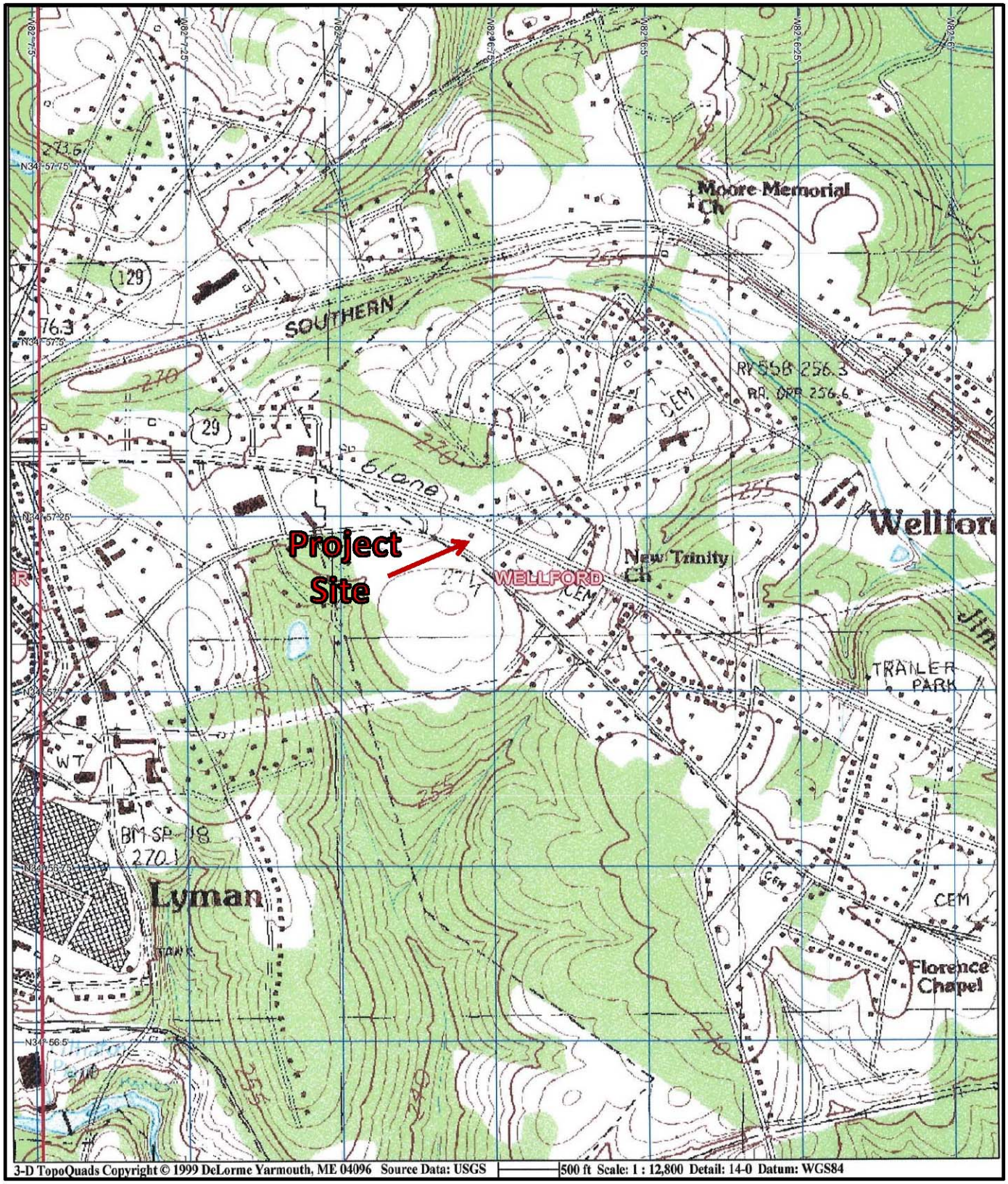
Tables (Located in Text)

- Former USTs Located On-site
- Total Volume of Fluids/Emissions Recovered
- Pre/Post Event Water Levels

Appendices
Appendix A - Well Construction Records & Logs
Appendix B - Well Development Data Verification Forms
Appendix C - AFVR Summary Sheet & AFVR Field Data Sheets
Appendix D - AFVR Data Sheets – Emissions Data & Calculations
Appendix E - Effluent Disposal Manifests, Weight Tickets & Tanker Chart
Appendix F - Photo Log
Appendix G - Contractor Checklist

`

FIGURES



TOPOGRAPHIC MAP

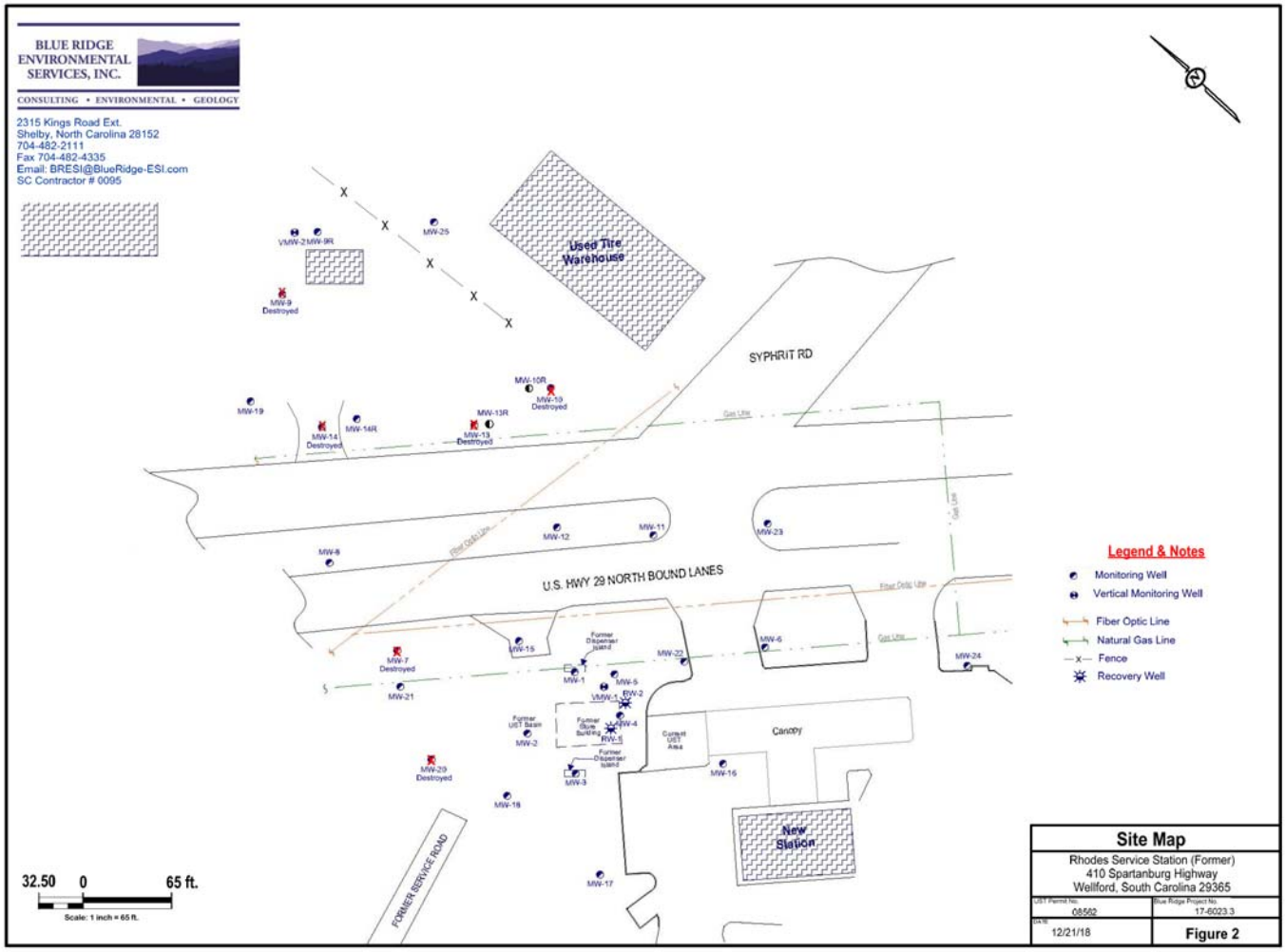
0 1,111 ft.

North

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor: # 0095

Client:	Robert F. Turner
Project:	Rhodes Service Station (Former)
Location:	410 Spartanburg Highway South
	WellfordF1, South Carolina 29365
Blue Ridge Project #:	17-6023.4
Date: 6/17/20	Approximate Scale: 1" = 1,111' — Figure 1

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095



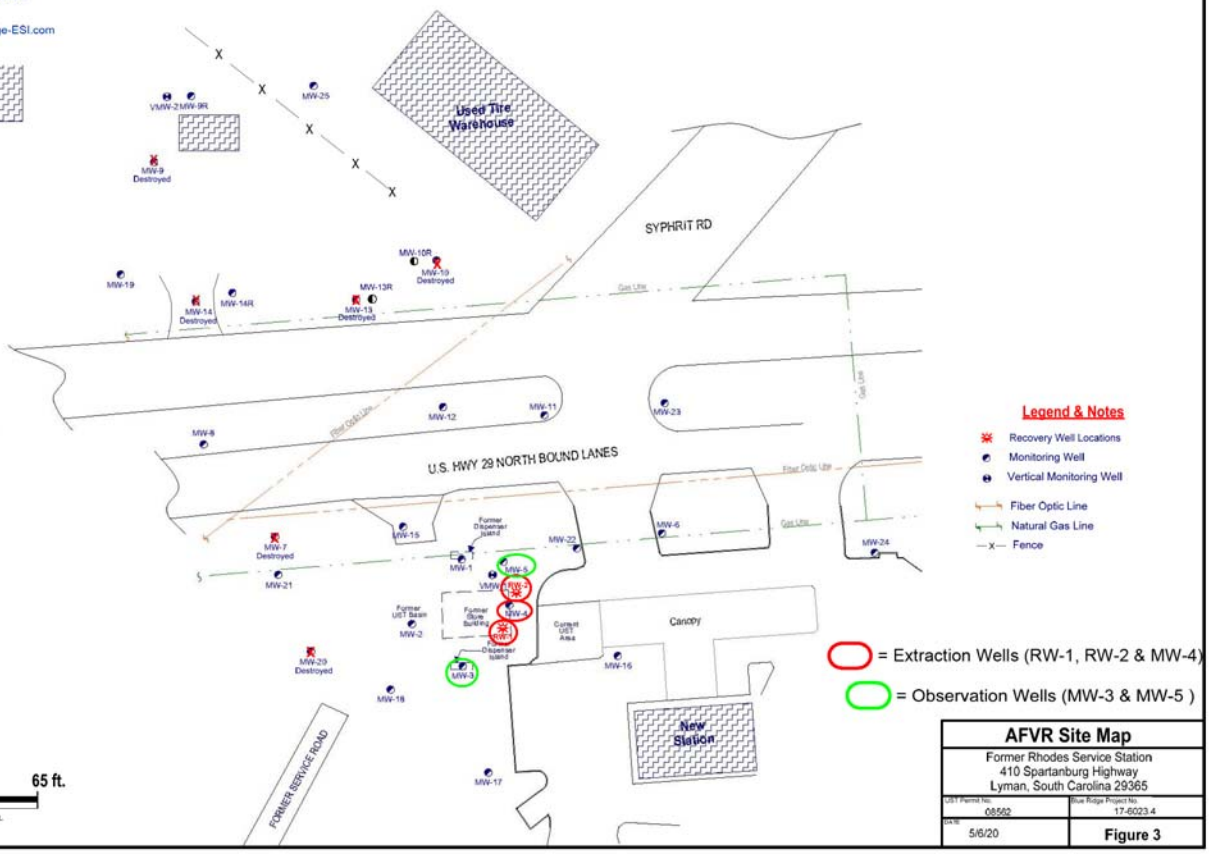
Site Map

Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365

UST Permit No.	Blue Ridge Project No.
08502	17-6023.3
DATE: 12/21/18	Figure 2

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095

96-Hour Aggressive Fluid & Vapor Recovery Event Conducted: May 18 - May 22, 2020



AFVR Site Map

Former Rhodes Service Station
410 Spartanburg Highway
Lyman, South Carolina 29365

UST Permit No.	Blue Ridge Project No.
08502	17-6023.4
DATE: 5/6/20	Figure 3

APPENDICES

APPENDIX A

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: *Personal information provided on this document is subject to public scrutiny or release.*

1. WELL OWNER INFORMATION:
Name: Odom Oil Company (last) (first)
Address: P.O. Box 1291
City: Spartanburg State: SC Zip: 29304-1291
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg Highway
City: Wellford Zip: 29365-0000
Latitude: 34N 57' 13.614 Longitude: 82W 6' 47.4726

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☐ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown LOAM	2	2
Light Rd Friable Micaceous LOAM	3	5
Light Red Mottled Friable		
Micaceous Sandy SILT	10	15
Light Red to Purple Mottled Friable		
Micaceous Sandy SILT	15	30
VOC @ 3'-5'	0	
VOC @ 8'-10'	0	
VOC @ 13'-15'	0	
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
08562-MW-10R

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW- 27943

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☑ Replacement

9. WELL DEPTH (completed) Date Started: 5/12/20
30 ft. Date Completed: 5/12/20

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20'
Set Between: 10 ft. and 30 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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 (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8' ft. to 30' ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0' ft. to 8' 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 _____ ft. Capacity _____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jeffrey White **CERT. NO.:** 2234
Address: (Print) 2315 Kings Rd. Ext, Shelby, NC
Level: A B C (D) (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4335

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: _____ Well Driller Date: 5/15/20

If D Level Driller, provide supervising driller's name:
Ken Pineda #2246

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: *Personal information provided on this document is subject to public scrutiny or release.*

1. WELL OWNER INFORMATION:
Name: Odom Oil Company (last) (first)
Address: P.O. Box 1291
City: Spartanburg State: SC Zip: 29304-1291
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg Highway
City: Wellford Zip: 29365-0000
Latitude: 34N 57' 13.704 Longitude: 82W 6' 47.3502

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☐ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown LOAM	2	2
Light Rd Friable Micaceous LOAM	3	5
Light Red Mottled Friable		
Micaceous Sandy SILT	10	15
Light Red to Purple Mottled Friable		
Micaceous Sandy SILT	20	35
VOC @ 3'-5'	0	
VOC @ 8'-10'	0	
VOC @ 13'-15'	0	
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
08562-MW-13R

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW- 27943

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☑ Replacement

9. WELL DEPTH (completed) Date Started: 5/12/20
35 ft. Date Completed: 5/12/20

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 15 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20'
Set Between: 15 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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 (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13' ft. to 35' ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0' ft. to 13' 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 _____ ft. Capacity _____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jeffrey White **CERT. NO.:** 2234
Address: (Print) 2315 Kings Rd Ext. Shelby, NC 28152
Level: A B C (D) (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4335

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: _____ Date: 5/15/20
Well Driller

If D Level Driller, provide supervising driller's name:
Ken Pienkota #2246

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com

Monitoring Well Log

Well Construction Permit Number *UMW-26973*

I. D. Number	*08562-MW-10R*	**Purpose**	*Replacement/Reinstallation*
Project Name	*Rhodes Service Station (Former)*	**Contractor**	*Blue Ridge Environmental Services, Inc.*
Permit No.	*08562*	**Registration No.**	*2234*
Geologist	*Ken Pimienta*	**Driller**	*Jeffrey White*
Start Date	*5/12/2020* **Complete Date** *5/12/2020*	**Equipment**	*Simco 2400 Rotary Auger Drill Rig*

Drilling Method: **Rotary Auger**
Comments: *See Location on Site Map. Installed to original dimensions and in the vicinity of original well.*

Depth From - To	Subsurface Description / Comments	PID (ppm) @ Depth (ft.)	Well Construction Information	
0 - 2'	*Dark Brown LOAM*	*0 @ 3'-5'*		
2' - 5'	*Light Red Friable Micaceous Loam*	*0 @ 8'-10'*		
5' - 15'	*Light Red Mottled Friable Micaceous Sandy SILT*	*0 @ 13'-15'*		
15' - 30'	*Light Red to Purple Mottled Friable Micaceous Sandy SILT*			
-	.			
-				
-				
-				
-				
-			**Borehole Dia.**	*7"*
-			**Riser Type**	*PVC*
-			**Diameter**	*2"*
-			**Screen Type**	*PVC*
-			**Diameter**	*2"*
-			**Riser Interval**	*0 - 10'*
-			**Screen Interval**	*10 '- 30'*
-			**Slot Size**	*0.01*
-			**Grout Type**	*I*
-			**Interval**	*0 - 6'*
-			**Bentonite Type**	*Pellets*
-			**Interval**	*6'- 8'*
-			**Filter Pack**	*Sand*
-			**Interval**	*8' - 30'*
-			**Total Depth**	*30'*
-			**R.P.* Elevation**	
-			**Datum**	
-			**Water Level Information**	
-			**Date**	**W.L.Below R.P.**
-			*5/12/2020*	*14.3*
-				
-				

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*
PID = Photo-ionization Device ** TOC = Top of casing GS = Ground surface*

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Shelby, North Carolina 28152
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(F) 704.482.4335
Email: BRESI@BlueRidge-ESI.com

Monitoring Well Log

Well Construction Permit Number *UMW-27943*

I. D. Number	*08562-MW-13R*	**Purpose**	*Replacement/Reinstallation*
Project Name	*Rhodes Service Station (Former)*	**Contractor**	*Blue Ridge Environmental Services, Inc.*
Permit No.	*08562*	**Registration No.**	*2234*
Geologist	*Ken Pimienta*	**Driller**	*Jeffrey White*
Start Date	*5/12/2020* **Complete Date** *5/12/2020*	**Equipment**	*Simco 2400 Rotary Auger Drill Rig*

Drilling Method: **Rotary Auger**
Comments: *See Location on Site Map. Installed to original dimensions and in the vicinity of original well.*

Depth From - To	Subsurface Description / Comments	PID (ppm) @ Depth (ft.)	Well Construction Information	
0 - 2'	*Dark Brown LOAM*	*0 @ 3'-5'*		
2' - 5'	*Light Red Friable Micaceous Loam*	*0 @ 8'-10'*		
5' - 15'	*Light Red Mottled Friable Micaceous Sandy SILT*	*0 @ 13'-15'*		
15' - 35'	*Light Red to Purple Mottled Friable Micaceous Sandy SILT*			
-	.			
-				
-				
-				
-				
-			**Borehole Dia.**	*7"*
-			**Riser Type**	*PVC*
-			**Diameter**	*2"*
-			**Screen Type**	*PVC*
-			**Diameter**	*2"*
-			**Riser Interval**	*0 - 15'*
-			**Screen Interval**	*15 '- 35'*
-			**Slot Size**	*0.01*
-			**Grout Type**	*I*
-			**Interval**	*0 - 11'*
-			**Bentonite Type**	*Pellets*
-			**Interval**	*11 '- 13'*
-			**Filter Pack**	*Sand*
-			**Interval**	*13' - 35'*
-			**Total Depth**	*35'*
-			**R.P.* Elevation**	
-			**Datum**	
-			**Water Level Information**	
-			**Date**	**W.L.Below R.P.**
-			*5/12/2020*	*14.85*
-				
-				

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*
PID = Photo-ionization Device ** TOC = Top of casing* *GS = Ground surface*

APPENDIX B

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Rhodes Service Station | Site ID#: 08562

Date: 5/12/20 | Field Personnel: JW & KP

Drilling Company: Blue Ridge Environmental Services | Driller's Name: Jeffrey White

Driller's Certification Number: 2234 | Weather Conditions: Sunny

Well Development Method

Surge Block ☑ / Bailer | 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.	TDKGTPH	serial no.	TDKGTPH	serial no.	TDKGTPH ✓	serial no.	TDKGTPH
pH=4.0	✓	standard	4,5 ✓			NTU=0.0	✓
pH=7.0						NTU=1.0	
pH=10.0						NTU=10.0	

Drilling Method

Hollow Stem Augers ☑ | Solid Flight Augers ○ | Direct Push ○

Air Rotary ○ | Mud Rotary ○ | Sonic ○

Monitoring Well ID# 08562-MW10R | Well Casing Diameter 2 inches | Borehole Diameter 6 inches

Depth to Ground Water (DGW) 14.30 ft. | Screen Length/Slot Size 20 ft./ in.

Total Well Depth (TWD) 30 ft. | Screen Interval 30 ft. to 10 ft.

Length of water column (LWC=TWD-DGW) 16,70 ft. | Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 20 gals. | Drilling Fluids recovered N/A gals.

Time (military)	1330	1345	1401	1415	1430		
pH (s.u.)*	4,35	4.82	4.91	4,89	4.79		
Specific Conductivity (mmhos/cm)*	0,227	0.060	0.047	0,055	0.061		
Water Temperature (C)*	18,17	18,52	17,33	17,31	17,25		
Turbidity (NTU) *	1000+	1000+	1000+	11 11	495		
Physical Characteristics (color/odor)	No odor/cloudy	No odor	11 11	clear	clear ✓		
Water Level Measurement (ft) from TOC	14,30	11 11	11 11	11 11	14,54		
Total Well Depth (ft) from TOC	30	30	30	30	30		
Cumulative Gallons Removed	1 gals	6 gals	10 gals	15 gals	20 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Bail + Surge / Repeat... - Fast Recharge

Driller Signature: [signature] Date: 5/12/20

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Rhodes Service Station Site ID#: 08562

Date: 5/12/20 Field Personnel: JW & KP

Drilling Company: Blue Ridge Environmental Services Driller's Name: Jeffrey White

Driller's Certification Number: 2234 Weather Conditions: Sunny 68° F

Well Development Method

Surge Block ☑/Bailer Submersible Pump ○ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. TDKGTPH
pH=4.0 ✓
pH=7.0
pH=10.0

Conductivity meter
serial no. TDKGTPH
standard 4.5 ✓

Temperature meter
serial no. TDKGTPH ✓

Turbidity meter
serial no. TDKGTPH
NTU=0.0 ✓
NTU=1.0
NTU=10.0

Drilling Method

Hollow Stem Augers ☑ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 08562-MW13R Well Casing Diameter 2 inches Borehole Diameter 6 inches

Depth to Ground Water (DGW) 14,85 ft. Screen Length/Slot Size 20 ft./ in.

Total Well Depth (TWD) 35 ft. Screen Interval 35 ft. to 15 ft.

Length of water column (LWC=TWD-DGW) 20,15 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 20 gals. Drilling Fluids recovered N/A gals.

Time (military)	1444	1458	1512	1525			
pH (s.u.)*	5,47	5,61	5,52	5,54			
Specific Conductivity (mmhos/cm)*	0,091	0,097	0,081	0,091			
Water Temperature (C)*	18,09	18,46	18,16	18,19			
Turbidity (NTU) *	1000+	1000+	1000+	712			
Physical Characteristics (color/odor)	cloudy	No odor	" "	clearer			
Water Level Measurement (ft) from TOC	14,85	" "	" "				
Total Well Depth (ft) from TOC	35	" "	" "	" "			
Cumulative Gallons Removed	1,5 gals	10 gals	15 gals	20 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Bail + Surge. Repeat - Fast Recharge

Driller Signature: [signature] Date: 5/12/20

APPENDIX C

May 28, 2020

Jeffrey White
Blue Ridge Environmental Services, Inc.
2315 Kings Mountain Extension
Shelby, NC 28152

RE: Summary Sheet – Former Rhodes Service Station
410 Spartanburg Highway
Wellford, SC
UST Permit # 08562
VERCO Project #V20219

Mr. White:

VERCO performed a 96-Hour AFVR event at the Former Rhodes Service Station commencing on May 18, 2020 at 9:00am and ending on May 22, 2020 at 9:00am. The event was conducted on monitoring well MW-4 and recovery wells RW-1 and RW-2.

Average/Stabilized Vacuum and Velocity
Vacuum on the wells ranged from -10 to -15 inches Hg and the off gas velocity was between 160 and 170 ft/min.

Pretreatment Concentrations
During the 96-hour event the VOC readings ranged from low of 161.2 ppm to a high of 512.6 ppm.

Groundwater/Product Recovery
The 96-Hour event produced 17,770 gallons of PCW which is an average of 185.10 gallons per hour. The PCW was transported offsite in 3 loads. All three loads had a slight sheen on top. The PCW was transported to VLS Recovery Services, LLC in Mauldin, South Carolina for wastewater treatment.

Total VOC's Removed as Vapor
Total emissions in pounds were calculated to be 340.49 or 55.27 gallons.

VOC's Emitted as Vapor
The MMPE unit is equipped with a FALCO 300 Electric Catalytic Oxidizer which treats air streams contaminated with volatile organic compounds (VOCs). The catalyst provides VOC destruction efficiencies up to 99.5%. Our measurements conducted throughout the event detected no VOCs were emitted after treatment.

Measurable Vacuum Influence Identified on Adjacent Observation Wells

VERCO installed monitoring well plugs with caps on monitoring wells MW-3 and MW-5 to gauge influence. A Dwyer Series 475 Mark III Digital Manometer was utilized to measure the influence. The influence on the wells were measured as per SCDHEC QAPP Rev 3.1 and below shows the range of influence found on the adjacent observation wells.

Well Number	Range of Vacuum Measured
MW-3	-0.00 – 0.06
MW-5	-0.15 – 0.20

Drawdown Measured on Adjacent Observation Wells

VERCO utilized an interface probe to measure the drawdown on the adjacent observation wells. Below is the start and finish readings recorded. No product was detected in the wells.

Well Number	Starting Measurement	Ending Measurement
MW-3	9.98	10.55
MW-5	11.98	13.85

If you should have any questions or comments, please feel free to call or email me.

Sincerely,
VERCO

Bill Aikins
Project Manager
bill.aikins2612@gmail.com

STINGER DEPTHS						
SITE: Former Rhodes Service Station						
SITE LOCATION: 410 Spartanburg Highway, Wellford, SC						
SCDHEC SITE # 08562						
DATES: 5/18/2020 - 5/22/2020						
			MW-4	RW-1	RW-2	
Date	Time	Elapsed Time				
5/18/2020	9:00	0.0	12.00	12.00	12.00	
	9:30	0.5	12.50	12.50	12.50	
	10:00	1.0	13.00	13.00	13.00	
	10:30	1.5	13.50	13.50	13.50	
	11:00	2.0	14.00	14.00	14.00	
	11:30	2.5	14.50	14.50	14.50	
	12:00	3.0	15.00	15.00	15.00	
	12:30	3.5	15.50	15.50	15.50	
	13:00	4.0	16.00	16.00	16.00	
	13:30	4.5	16.50	16.50	16.50	
	14:00	5.0	17.00	17.00	17.00	
	14:30	5.5	17.50	17.50	17.50	
	15:00	6.0	18.00	18.00	18.00	
	15:30	6.5	18.50	18.50	18.50	
	16:00	7.0	19.00	19.00	19.00	
	16:30	7.5	19.50	19.50	19.50	
	17:00	8.0	20.00	20.00	20.00	
	18:00	9.0	20.00	20.00	20.00	
	19:00	10.0	20.00	20.00	20.00	
	20:00	11.0	20.00	20.00	20.00	
	21:00	12.0	20.00	20.00	20.00	
	22:00	13.0	20.00	20.00	20.00	
	23:00	14.0	18.50	18.50	18.50	
5/19/2020	0:00	15.0	18.50	18.50	18.50	
	8:00	23.0	18.50	18.50	18.50	
	9:00	24.0	18.50	18.50	18.50	
	11:00	26.0	19.00	19.00	19.00	
	13:00	28.0	19.00	19.00	19.00	
	15:00	30.0	19.00	19.00	19.00	
	17:00	32.0	19.50	19.50	19.50	
	19:00	34.0	19.50	19.50	19.50	
	21:00	36.0	19.50	19.50	19.50	
	23:00	37.0	19.50	19.50	19.50	
5/20/2020	0:00	39.0	19.50	19.50	19.50	
	8:00	47.0	19.50	19.50	19.50	
	10:00	49.0	19.50	19.50	19.50	
	12:00	51.0	19.50	19.50	19.50	
	14:00	53.0	19.50	19.50	19.50	
	16:00	55.0	19.50	19.50	19.50	
	18:00	57.0	19.50	19.50	19.50	
	20:00	59.0	19.50	19.50	19.50	
	22:00	61.0	19.50	19.50	19.50	
5/21/2020	0:00	63.0	19.50	19.50	19.50	
	8:00	71.0	20.00	20.00	20.00	
	10:00	73.0	20.00	20.00	20.00	
	12:00	75.0	20.00	20.00	20.00	
	14:00	77.0	20.00	20.00	20.00	
	16:00	79.0	20.00	20.00	20.00	
	18:00	81.0	20.00	20.00	20.00	
	20:00	83.0	20.00	20.00	20.00	
	22:00	85.0	19.50	19.50	19.50	
5/22/2020	0:00	87.0	19.50	19.50	19.50	
	8:00	95.0	19.50	19.50	19.50	
	9:00	96.0	19.50	19.50	19.50	

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - Former Rhodes Service Station
SITE LOCATION - 410 Spartanburg Highway, Wellford, SC
SCDHEC SITE ID # 08562
DATES: 5/18/2020 - 5/22/2020

DIFFERENTIAL PRESSURE DATA

			Well Designation:				
			MW-5	MW-3			
Date	Time	Elapsed Time	Differential Pressure Readings (inches of water)				
5/18/2020	9:00	0.0					
	9:30	0.5	0.15	0.03			
	10:00	1.0	0.16	0.03			
	10:30	1.5	0.16	0.04			
	11:00	2.0	0.16	0.04			
	11:30	2.5	0.17	0.05			
	12:00	3.0	0.17	0.05			
	12:30	3.5	0.15	0.05			
	13:00	4.0	0.15	0.07			
	13:30	4.5	0.17	0.04			
	14:00	5.0	0.20	0.04			
	14:30	5.5	0.20	0.03			
	15:00	6.0	0.20	0.03			
	15:30	6.5	0.20	0.03			
	16:00	7.0	0.20	0.04			
	16:30	7.5	0.20	0.04			
	17:00	8.0	0.20	0.04			
	18:00	9.0	0.20	0.04			
	19:00	10.0	0.20	0.05			
	20:00	11.0	0.20	0.05			
	21:00	12.0	0.20	0.05			
	22:00	13.0	0.18	0.05			
	23:00	14.0	0.19	0.05			
5/19/2020	0:00	15.0	0.17	0.05			
	8:00	23.0	0.17	0.03			
	9:00	24.0	0.15	0.03			
	11:00	26.0	0.15	0.03			
	13:00	28.0	0.16	0.04			
	15:00	30.0	0.16	0.04			
	17:00	32.0	0.17	0.05			
	19:00	34.0	0.17	0.05			
	21:00	36.0	0.16	0.05			
	23:00	37.0	0.16	0.06			
5/20/2020	0:00	39.0	0.17	0.03			
	8:00	47.0	0.17	0.02			
	10:00	49.0	0.16	0.02			
	12:00	51.0	0.16	0.02			
	14:00	53.0	0.16	0.02			
	16:00	55.0	0.16	0.02			
	18:00	57.0	0.16	0.03			
	20:00	59.0	0.17	0.03			
	22:00	61.0	0.17	0.00			
5/21/2020	0:00	63.0	0.17	0.00			
	8:00	71.0	0.18	0.00			
	10:00	73.0	0.18	0.00			
	12:00	75.0	0.18	0.00			
	14:00	77.0	0.17	0.00			
	16:00	79.0	0.17	0.00			
	18:00	81.0	0.17	0.00			
	20:00	83.0	0.17	0.00			
	22:00	85.0	0.17	0.00			
5/22/2020	0:00	87.0	0.17	0.00			
	8:00	95.0	0.17	0.00			
	9:00	96.0	0.17	0.00			

GROUNDWATER DRAWDOWN DATA

			Well Designation:				
			MW-5	MW-3			
	Time	Elapsed Time	Depth to Liquid (feet below of casing):				
	Prior to AFVR	0 hours	11.98	9.98			
		24 hours	12.00	10.12			
		48 hours	12.54	10.33			
		72 hours	12.87	10.42			
		96 hours	13.85	10.55			
	Maximum Change:		**1.87**	**0.57**			

APPENDIX D

AFVR MONITORING DATA
SITE NAME: Former Rhodes Service Station
SITE LOCATION: 410 Spartanburg Highway, Wellford, SC
SCDHEC SITE ID # 08562
DATES: 5/18/2020 - 5/22/2020

Date	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)					MMPE Unit Exhaust						
		MW-4	RW-1	RW-2			Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)	Post Treatment Conc. (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
5/18/2020	9:00	15.0	10.0	10.0									
	9:30	15.0	10.0	10.0			7.7	161	161.2	0.0	160	0.02	133.32
	10:00	15.0	10.0	10.0			7.3	174	189.2	0.0	160	0.02	130.58
	10:30	15.0	10.0	10.0			7.0	181	255.6	0.1	160	0.03	127.84
	11:00	15.0	10.0	10.0			7.1	189	312.6	0.0	160	0.03	126.26
	11:30	15.0	10.0	10.0			6.3	190	334.2	0.0	160	0.03	126.07
	12:00	15.0	10.0	10.0			6.1	191	359.6	0.0	160	0.03	125.88
	12:30	15.0	10.0	10.0			6.1	192	362.2	0.0	160	0.03	125.68
	13:00	15.0	10.0	10.0			6.0	194	411.2	0.0	160	0.03	125.30
	13:30	15.0	10.0	10.0			5.5	196	512.4	0.0	160	0.03	124.92
	14:00	15.0	10.0	10.0			5.6	182	396.2	0.0	160	0.02	128.96
	14:30	15.0	10.0	10.0			6.1	185	476.2	0.0	160	0.03	127.05
	15:00	15.0	10.0	10.0			6.2	186	443.1	0.0	160	0.03	126.85
	15:30	15.0	10.0	10.0			5.5	183	432.7	0.0	160	0.02	128.76
	16:00	15.0	10.0	10.0			5.9	183	398.1	0.0	160	0.02	128.76
	16:30	15.0	10.0	10.0			5.5	187	312.4	0.0	160	0.02	127.96
	17:00	15.0	10.0	10.0			5.6	188	336.2	0.0	160	0.02	127.76
	18:00	15.0	10.0	10.0			6.2	190	412.6	0.0	160	0.03	126.07
	19:00	15.0	10.0	10.0			6.4	191	331.1	0.0	160	0.03	125.88
	20:00	15.0	10.0	10.0			6.3	186	371.9	0.0	160	0.03	126.85
	21:00	15.0	10.0	10.0			5.4	183	376.9	0.0	160	0.02	128.76
	22:00	15.0	10.0	10.0			5.2	186	346.1	0.0	160	0.02	128.16
	23:00	15.0	10.0	10.0			6.2	183	426.1	0.0	160	0.02	128.76
5/19/2020	0:00	15.0	10.0	10.0			6.2	181	402.1	0.0	160	0.02	129.16
	8:00	15.0	10.0	10.0			5.9	182	400.1	0.0	165	0.02	132.99
	9:00	15.0	10.0	10.0			5.8	182	392.1	0.0	165	0.02	132.99
	11:00	15.0	10.0	10.0			6.7	201	346.2	0.0	165	0.04	126.53
	13:00	15.0	10.0	10.0			7.1	202	296.1	0.0	165	0.04	126.34
	15:00	15.0	10.0	10.0			7.2	200	334.2	0.0	165	0.04	126.72
	17:00	15.0	10.0	10.0			6.6	205	411.9	0.0	165	0.04	125.77
	19:00	15.0	10.0	10.0			6.8	206	391.4	0.0	165	0.04	125.58
	21:00	15.0	10.0	10.0			6.9	202	404.0	0.0	165	0.04	126.34
	23:00	15.0	10.0	10.0			6.7	202	421.4	0.0	165	0.04	126.34
5/20/2020	0:00	15.0	10.0	10.0			6.3	204	399.7	0.0	165	0.04	125.96
	8:00	15.0	10.0	10.0			6.5	210	334.6	0.0	165	0.04	124.83
	10:00	15.0	10.0	10.0			6.6	208	341.2	0.0	165	0.04	125.20
	12:00	15.0	10.0	10.0			6.8	207	343.6	0.0	165	0.04	125.39
	14:00	15.0	10.0	10.0			7.1	209	340.2	0.0	165	0.04	125.02
	16:00	15.0	10.0	10.0			7.1	210	371.9	0.0	165	0.04	124.83
	18:00	15.0	10.0	10.0			7.0	210	371.2	0.0	170	0.04	128.61
	20:00	15.0	10.0	10.0			7.2	208	356.2	0.0	170	0.04	129.00
	22:00	15.0	10.0	10.0			7.3	208	358.1	0.0	170	0.04	129.00
5/21/2020	0:00	15.0	10.0	10.0			7.0	208	333.1	0.0	170	0.04	129.00
	8:00	15.0	10.0	10.0			6.6	202	346.2	0.0	170	0.04	130.17
	10:00	15.0	10.0	10.0			6.5	204	291.2	0.0	170	0.04	129.77
	12:00	15.0	10.0	10.0			6.3	203	301.7	0.0	170	0.04	129.97
	14:00	15.0	10.0	10.0			6.1	201	286.1	0.0	170	0.04	130.36
	16:00	15.0	10.0	10.0			6.0	199	312.4	0.0	170	0.03	132.12
	18:00	15.0	10.0	10.0			5.8	193	333.3	0.0	170	0.03	133.33
	20:00	15.0	10.0	10.0			5.9	194	311.9	0.0	170	0.03	133.13
	22:00	15.0	10.0	10.0			6.4	196	412.3	0.0	170	0.03	132.72
5/22/2020	0:00	15.0	10.0	10.0			6.2	198	291.6	0.0	170	0.03	132.32
	8:00	15.0	10.0	10.0			6.1	197	298.8	0.0	170	0.03	132.52
	9:00	15.0	10.0	10.0			5.7	197	301.3	0.0	170	0.03	132.52

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Target Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW-4	2.00	30.00	20.00	0.00	11.82	0.00	0.00	15.50	0.00
RW-1	4.00	35.00	20.00	0.00	11.91	0.00	0.00	14.45	0.00
RW-2	4.00	35.00	20.00	0.00	11.75	0.00	0.00	14.48	0.00

AFVR Information	
Client	BR
Equipment Operator:	DB
Blower Discharge I.D.	4 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)

Velocity - The rate at which air flows is measured at the blower discharge piping

Temperature - The temperature of the air stream exiting the blower discharge piping

Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping

Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)

Flow rate = (1 - water vapor)(velocity)(528°R/Temp + 460)

Total Gallons Extracted
17,770

EMISSION CALCULATION
SITE NAME: Former Rhodes Service Station
SITE LOCATION: 410 Spartanburg Highway, Wellford, SC
SCDHEC SITE ID # 08562
DATES: 5/18/2020 - 5/22/2020

Date/Time	Elapsed Time (hr)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
5/18/2020 - 9:00	0.0								
9:30	0.5	133.32	161.2	4	644.8	3430.336	0.000214156	1.713048375	0.856524187
10:00	1.0	130.58	189.2	4	756.8	4026.176	0.000251354	1.969373383	0.984686692
10:30	1.5	127.84	255.6	4	1022.4	5439.168	0.000339567	2.604621783	1.302310892
11:00	2.0	126.26	312.6	4	1250.4	6652.128	0.000415292	3.146198541	1.57309927
11:30	2.5	126.07	334.2	4	1336.8	7111.776	0.000443988	3.358419457	1.679209728
12:00	3.0	125.88	359.6	4	1438.4	7652.288	0.000477732	3.608116427	1.804058213
12:30	3.5	125.68	362.2	4	1448.8	7707.616	0.000481186	3.628630099	1.814315049
13:00	4.0	125.30	411.2	4	1644.8	8750.336	0.000546283	4.106929106	2.053464553
13:30	4.5	124.92	512.4	4	2049.6	10903.872	0.000680729	5.102078427	2.551039213
14:00	5.0	128.96	396.2	4	1584.8	8431.136	0.000526356	4.072636348	2.036318174
14:30	5.5	127.05	476.2	4	1904.8	10133.536	0.000632637	4.822492099	2.41124605
15:00	6.0	126.85	443.1	4	1772.4	9429.168	0.000588663	4.480341112	2.240170556
15:30	6.5	128.76	432.7	4	1730.8	9207.856	0.000574846	4.440911435	2.220455717
16:00	7.0	128.76	398.1	4	1592.4	8471.568	0.00052888	4.085802732	2.042901366
16:30	7.5	127.96	312.4	4	1249.6	6647.872	0.000415027	3.186419377	1.593209688
17:00	8.0	127.76	336.2	4	1344.8	7154.336	0.000446645	3.423882822	1.711941411
18:00	9.0	126.07	412.6	4	1650.4	8780.128	0.000548143	4.146271298	4.146271298
19:00	10.0	125.88	331.1	4	1324.4	7045.808	0.00043987	3.322156142	3.322156142
20:00	11.0	126.85	371.9	4	1487.6	7914.032	0.000494073	3.760412683	3.760412683
21:00	12.0	128.76	376.9	4	1507.6	8020.432	0.000500716	3.868221677	3.868221677
22:00	13.0	128.16	346.1	4	1384.4	7365.008	0.000459797	3.53561747	3.53561747
23:00	14.0	128.76	426.1	4	1704.4	9067.408	0.000566078	4.373173936	4.373173936
5/19/2020 - 0:00	15.0	129.16	402.1	4	1608.4	8556.688	0.000534194	4.139732066	4.139732066
8:00	23.0	132.99	400.1	4	1600.4	8514.128	0.000531537	4.241248067	33.92998453
9:00	24.0	132.99	392.1	4	1568.4	8343.888	0.000520909	4.156444306	4.156444306
11:00	26.0	126.53	346.2	4	1384.8	7367.136	0.00045993	3.491651679	6.983303359
13:00	28.0	126.34	296.1	4	1184.4	6301.008	0.000393372	2.981849546	5.963699092
15:00	30.0	126.72	334.2	4	1336.8	7111.776	0.000443988	3.375730897	6.751461795
17:00	32.0	125.77	411.9	4	1647.6	8765.232	0.000547213	4.129290674	8.258581349
19:00	34.0	125.58	391.4	4	1565.6	8328.992	0.000519979	3.917886955	7.83577391
21:00	36.0	126.34	404.0	4	1616	8597.12	0.000536718	4.068447203	8.136894405
23:00	37.0	126.34	421.4	4	1685.6	8967.392	0.000559834	4.243672404	4.243672404
5/20/2020 - 0:00	39.0	125.96	399.7	4	1598.8	8505.616	0.000531006	4.013020494	4.013020494
8:00	47.0	124.83	334.6	4	1338.4	7120.288	0.00044452	3.329326922	26.63461538
10:00	49.0	125.20	341.2	4	1364.8	7260.736	0.000453288	3.40516271	6.810325419
12:00	51.0	125.39	343.6	4	1374.4	7311.808	0.000456476	3.434255718	6.868511435
14:00	53.0	125.02	340.2	4	1360.8	7239.456	0.000451959	3.390107737	6.780215474
16:00	55.0	124.83	371.9	4	1487.6	7914.032	0.000494073	3.700468268	7.400936535
18:00	57.0	128.61	371.2	4	1484.8	7899.136	0.000493143	3.805427486	7.610854973
20:00	59.0	129.00	356.2	4	1424.8	7579.936	0.000473215	3.66258522	7.32517044
22:00	61.0	129.00	358.1	4	1432.4	7620.368	0.00047574	3.68212175	7.3642435
5/21/2020 - 0:00	63.0	129.00	333.1	4	1332.4	7088.368	0.000442527	3.425062147	6.850124294
8:00	71.0	130.17	346.2	4	1384.8	7367.136	0.00045993	3.592025077	28.73620062
10:00	73.0	129.77	291.2	4	1164.8	6196.736	0.000386862	3.012267785	6.024535569
12:00	75.0	129.97	301.7	4	1206.8	6420.176	0.000400812	3.125590424	6.251180848
14:00	77.0	130.36	286.1	4	1144.4	6088.208	0.000380087	2.972943696	5.945887391
16:00	79.0	132.12	312.4	4	1249.6	6647.872	0.000415027	3.290003786	6.580007572
18:00	81.0	133.33	333.3	4	1333.2	7092.624	0.000442793	3.542361829	7.084723659
20:00	83.0	133.13	311.9	4	1247.6	6637.232	0.000414362	3.309850772	6.619701543
22:00	85.0	132.72	412.3	4	1649.2	8773.744	0.000547745	4.361945977	8.723891955
5/22/2020 - 0:00	87.0	132.32	291.6	4	1166.4	6205.248	0.000387394	3.075618136	6.151236272
8:00	95.0	132.52	298.8	4	1195.2	6358.464	0.000396959	3.156356219	25.25084975
9:00	96.0	132.52	301.3	4	1205.2	6411.664	0.00040028	3.182764821	3.182764821
						Total Emissions in pounds			340.4893491
						Equivalent Gallons (vapor)			55.27424499

APPENDIX E

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	31028

GENERATOR

5. Generator's Name and Mailing Address

VERCO
2047 Industrial Blvd.
Lexington, SC 29072-

Generator's Phone: 803-429-5001

Generator's Site Address (if different than mailing address)

Columbia SC 29210

6. Transporter 1 Company Name

Regulatory Solutions, Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

U.S. EPA ID Number

Facility's Phone: 803-926-0089

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt. Vol
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10658 - 1038	1	TT	5,414 ~~47000~~	G
2.				48.5"	
3.				5415 G by Weight	
4.					

13. Special Handling Instructions and Additional Information

Wellford Tanker 1

TKOB

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condtion for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Devin Breedlove | Signature | Month: 5 | Day: 19 | Year: 2020

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHARLES HADDISON | Signature | Month: 5 | Day: 19 | Year: 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17 Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b: Alternate Facilitiy (or Generator) | U.S EPA ID Number

Facility's Phone

17c: Signature of Alternate Facility (or Generator) | Month | Day | Year

18: Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.

Printed/Typed Name: SPENCER REDFERN | Signature | Month: 05 | Day: 21 | Year: 20

04:03 PM May/19/2020
TRUCK ID: 15019
GROSS 76260 LB
TARE LB
NET LB

04:58 PM May/19/2020
TRUCK ID: 15019
GROSS 76260 LB 76260
TARE 31100 LB 31100
NET 45160 LB 45160 / 8.34 = 5415 gallons

regulatory solutions, inc.

CUSTOMER NAME: VERLO

GENERATOR: WellFold

TRUCK/CONTAINER #: TF-01, TK-08

MANIFEST#: 31028

WEIGHER (INITIALS): DL

15019

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			31057

GENERATOR

5. Generator's Name and Mailing Address: VERCO, 2047 Industrial Blvd, Lexington, SC 29072
Generator's Phone:

Generator's Site Address (if different than mailing address): Former Rhodes Service Station, 410 Spartanburg Hwy, Wellford, SC

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Regulatory Solutions, 40 Pascon Court, Gaston, SC 29053
Facility's Phone: — U.S. EPA ID Number:

	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT PCW Profile #10658-1038	1	TT	~~5,880~~	G	
2.				4,880 by Weight	G	
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Bill Atkins — Signature: [signature] — Month: 5 Day: 20 Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David L McFarland — Signature: [signature] — Month: 5 Day: 20 Year: 20

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Spencer Redfern — Signature: [signature] — Month: 05 Day: 20 Year: 20

6-NHM-C-SO-1158

1-DESIGNATED FACILITY TO DESTINATION

04:34 PM May/20/2020
TRUCK ID:15020
GROSS 67760 LB
TARE LB
NET LB

05:14 PM May/20/2020
TRUCK ID:15020
GROSS 67760 LB
TARE 27060 LB
NET 40700 LB

67760
27060
40700 / 8.34 = 4880 gallons

regulatory solutions, inc.

CUSTOMER NAME: VERCO

GENERATOR: AFVR WELLFORD

TRUCK/CONTAINER #: TF-01, TK05

MANIFEST#: 31057

WEIGHER (INITIALS): JL

15020

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			31058

GENERATOR

5. Generator's Name and Mailing Address: VERCO, 2047 Industrial Blvd, Lexington, SC 29072
Generator's Phone:
Generator's Site Address (if different than mailing address): Former Rhodes Service Station, 410 Spartanburg Hwy, Wellford, SC

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Regulatory Solutions, 40 Pascon Court, Gaston, SC 29053 — U.S. EPA ID Number:
Facility's Phone:

	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT PCW Profile #10658-1038	1	TT	[redacted]	G	
2.				4,988 by weight	G	
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: BILL ATKINS — Signature: [signature] — Month: 5 — Day: 21 — Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID L. MITCHELL — Signature: [signature] — Month: 5 — Day: 21 — Year: 20

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: SPENCER REDFERN — Signature: [signature] — Month: 05 — Day: 22 — Year: 20

6-NHM-C-SO-1158

1-DESIGNATED FACILITY TO DESTINATION

04:15 PM May/21/2020
TRUCK ID: 15018
GROSS 69620 LB
TARE LB
NET LB

05:09 PM May/21/2020
TRUCK ID: 15018
GROSS 69620 LB
TARE 28020 LB
NET 41600 LB

69620
28020
41600 / 8.34 = 4988 gallons

regulatory solutions, inc.

CUSTOMER NAME: VERO

GENERATOR: AFW2 WELLFORD

TRUCK/CONTAINER #: TF01-TK07

MANIFEST#: 31058

WEIGHER (INITIALS): JL

15018

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			31059

GENERATOR

5. Generator's Name and Mailing Address: VERCO, 2047 Industrial Blvd, Lexington, SC 29072
Generator's Phone:
Generator's Site Address (if different than mailing address): Former Rhodes Service Station, 410 Spartanburg Hwy, Wellford, SC

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Regulatory Solutions, 48 Pascon Court, Gaston, SC 29053 — U.S. EPA ID Number:
Facility's Phone:

	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT PCW Profile #10658-1038	1	TT	20.5	G	2,486 g
2.				2487 by weight	G	
3.						
4.						

13. Special Handling Instructions and Additional Information

TK-05

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: BILL ATKINS — Signature: [signature] — Month: 5 — Day: 22 — Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID L. MITCHELL — Signature: [signature] — Month: 5 — Day: 22 — Year: 20

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: SPENCER REDFERN — Signature: [signature] — Month: 05 — Day: 22 — Year: 20

6-NHM-C-SO-1158

1 DESIGNATED FACILITY TO DESTINATION

03:25 PM Nov/22/2020
TRUCK ID: 15028
GROSS 47540 LB
TARE LB
NET LB

04:21 PM Nov/22/2020
TRUCK ID: 15028
GROSS 47540 LB
TARE 26800 LB
NET 20740 LB

47540
26800
20740 / 8.34 = 2487 gallon

regulatory solutions, inc.

CUSTOMER NAME: VERCO

GENERATOR: AFVL WELLFORD

TRUCK/CONTAINER #: TF01 - TK05

MANIFEST#: 31059

WEIGHER (INITIALS): CK

15028

APPENDIX F

Rhodes Service Station, UST #08562
Photo Log – Well Replacement
410 Spartanburg Highway
Wellford, South Carolina

1. Southern facing view across from the Site of the newly reinstalled monitoring well 08562-MW-10R.

Rhodes Service Station, UST #08562
Photo Log – Well Replacement
410 Spartanburg Highway
Wellford, South Carolina

2. Northern facing view of the newly reinstalled monitoring well 08562-MW-10R.

Rhodes Service Station, UST #08562
Photo Log – Well Replacement
410 Spartanburg Highway
Wellford, South Carolina

3. Southeastern view adjacent of Spartanburg Highway of the newly reinstalled monitoring well 08562-MW-13R.

Rhodes Service Station, UST #08562
Photo Log – Well Replacement
410 Spartanburg Highway
Wellford, South Carolina

4. Southern facing view across from the Site of the newly reinstalled monitoring well 08562-MW-13R.

APPENDIX G

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY

2315 Kings Road Extension
Shelby, North Carolina 28152
(O) 704.482.2111
(F) 704.482.4335
SC Contractor # 0095
BRESI@BlueRidge-ESI.com

Rhodes Service Station (Former)
UST Permit Number: 08562

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

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Rhodes Service Station (Former)
UST Permit Number: 08562

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		

Explanation for missing and incomplete information?

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DEC 02 2021

UST 31 Heels DOCKETING

CERTIFIED MAIL
9214 8969 0099 9790 1420 6829 72

KAVYA2015 INC
410 SPARTANBURG HWY
WELLFORD, SC 29385

Re: **Request for Property Access**
Former Rhodes Service Station, 410 Spartanburg Hwy, Wellford, SC
UST Permit #08562
Release reported January 24, 1990
Spartanburg County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling and corrective actions are necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by email at hofferqm@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)

State Lead Option
Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit #		
Facility Name:		
Facility Address:		
Facility Phone Number:		
Is facility within city limits? (check yes/no)	☐ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:		
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:	**Phone Number:**	
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 Property Owner (Print):	
Signature of Property Owner or authorized representative:	**Date**
Affiliation (if applicable)	
Signature of Witness	**Date**

Contact Info		
Phone Numbers:	**Home:**	**Cell:**
Email Address:		

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CERTIFIED MAIL
9214 8969 0099 9790 1721 2894 53

MAR 24 2022

KAVYA2015 INC
221 SIBLEY STREET
SPARTANBURG SC 29301

Re: **Request for Property Access**
Former Rhodes Service Station, 410 Spartanburg Hwy, Wellford, SC
UST Permit #08562
Release reported January 24, 1990
Spartanburg County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling and corrective actions are necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by email at hofferqm@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)

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Property Access Agreement for Site Rehabilitation

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UST Permit #		
Facility Name:		
Facility Address:		
Facility Phone Number:		
Is facility within city limits? (check yes/no)	☐ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:		
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:	**Phone Number:**	
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 Property Owner (Print):	
Signature of Property Owner or authorized representative:	**Date**
Affiliation (if applicable)	
Signature of Witness	**Date**

Contact Info		
Phone Numbers:	**Home:**	**Cell:**
Email Address:		

dhec
Healthy People. Healthy Communities.

APR 25 2022

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Site Specific Work Plan Request
Groundwater Sampling Contract
Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0500 or email brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
UST Management Division
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)
Site Information Packages

Cc: Angela Baioni, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)
Technical File (w/o Enc)

UST
33T
DOCKETING

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-898-2544

Healthy People. Healthy Communities.

MEMORANDUM

TO: Statelead Groundwater Sampling Contractor

FROM: Quincy Hoffer

RE: Site Specific Work Plan Request

Facility Name: Rhodes Service Station Contractor CA# 64794

Permit Number: 8562 PACE CA #: 64795

County: Spartanburg RBCA CLASS: 2BB

List Monitoring Wells to be Sampled Purging Method Non-Bracketing Only

Shallow MW-1 through MW-25, RW-1 and -2

Deep VMW-1 and -2

Intermediate

Surface Water Points to be Sampled (MUST BE ON MAP PROVIDED)

N/A

WSW Points to be Sampled (MUST BE ON MAP PROVIDED CONTACT INFO w TAX MAP INFO)

N/A

Sample Below Product

Additional Potentiometric Maps Requested - See Below (Note: Shallow & Deep Included)

Isopleth Maps requested instead of CoC Map (Only for CoCs >RBSL or SSTL)

Other:

Total Groundwater Sample Points: 29

Analysis Being Requested: K. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B), K7. EDB by EPA 8011

Total Water Supply Well Points: N/A

Analysis Being Requested:

12/2/2021

Quincy

Midlands Environmental Consultants, Inc.

April 29, 2022

UST 34 Quincy DOCKETING

RECEIVED MAY 03 2022 UST DIVISION

Mr. Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
Rhodes Service Station
Wellford, South Carolina
SCDHEC Site ID Number 08562
MECI Project Number 22-7864
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Brown,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On April 28, 2022, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Shawn W. Sprott
Project Scientist

Kyle V. Pudney
Project Biologist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Mr. Quincy Hoffer (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Rhodes Service Station UST Permit #: 08562
Facility Address: 410 Spartanburg Highway S, Wellford, SC 29385
Responsible Party: Odom Oil Company Phone: 864-583-3684
RP Address: PO Box 1291, Spartanburg, SC 29304
Property Owner (if different): Service Oil Company
Property Owner Address: PO Box 3255, Spartanburg, SC 29304
Current Use of Property: Active Gas Station

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260D)
- ☑ Oxygenates (8260D)
- ☑ EDB (8011)
- ☐ PAH (8270E)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260D)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ 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	____ Water Supply Wells	____ Air	1 Field Blank
29 Monitoring Wells	____ Surface Water	2 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: _____ 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 #: 08562 Facility Name: Rhodes Service Station

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 4/29/2022 Field Work Completion: 5/29/2022
Report Submittal: 6/29/2022 # 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: 300.0 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, monitoring wells MW-2, MW-3, MW-6, MW-8, MW-19, MW-25, and VMW-2 were not located. If any of these wells are located during the sampling event, they will be sampled accordingly.
-Only non-bracketing wells will be purged prior to sample collection.
-Samples will be analyzed for BTEXNM, DCA, Oxy's and EDB by appropriate methods.

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: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

None 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
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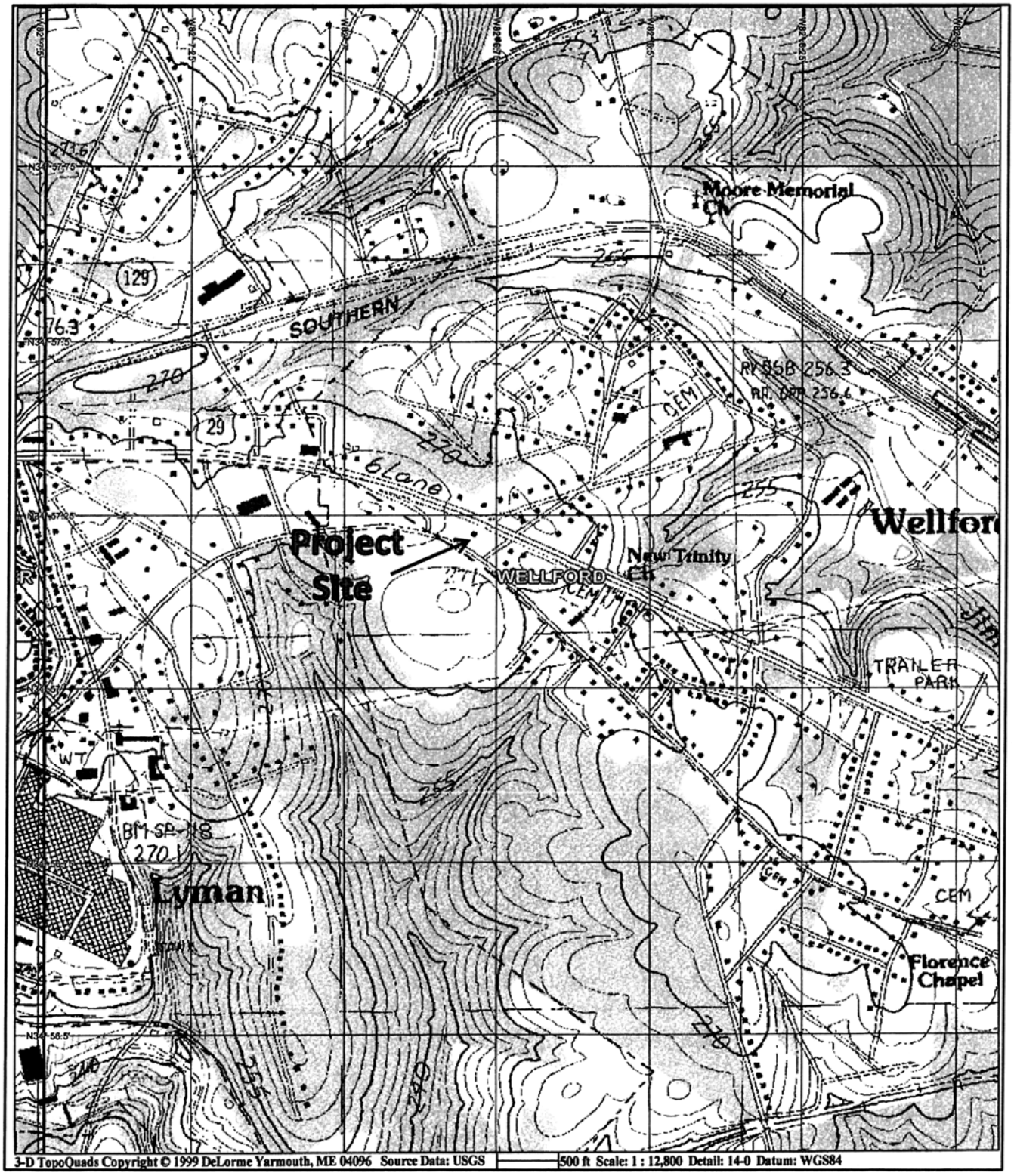
ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO # 4600830568

Facility Name: Rhodes Service Station

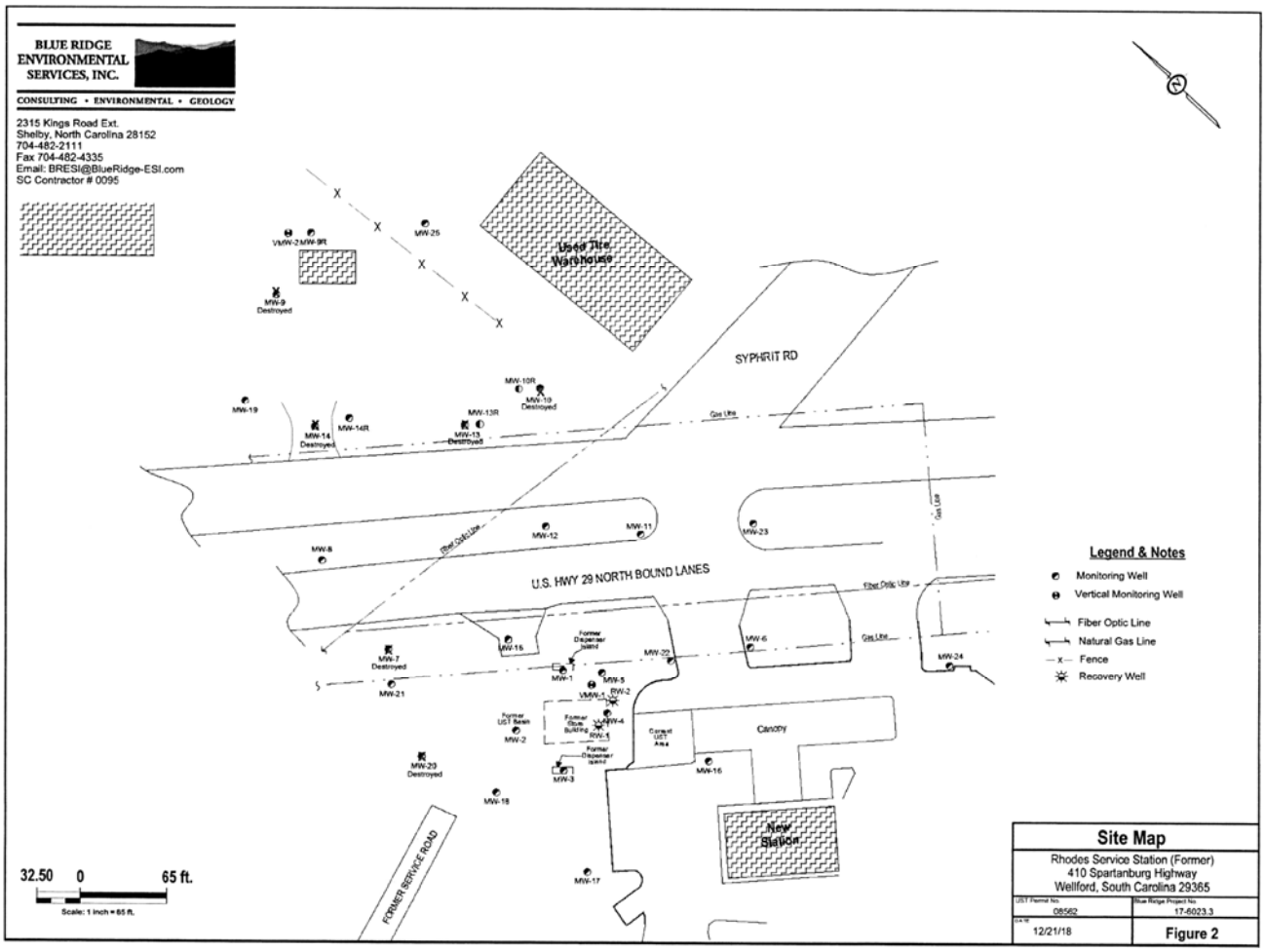
UST Permit #: 8562 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1. Site Specific Work Plan	1	each	$425.00		$425.00
2. Tax Map		each	$50.00		$0.00
B. Receptor Survey		each	$50.00		$0.00
D. Mob/Demob					
2. Personnel	2	each	$610.00		$1,220.00
J. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**					
1. Groundwater Purge	15	per well	$10.00		$150.00
2. Air or Vapors		per sample	$1.00		$0.00
3. Water Supply Sample		per sample	$40.00		$0.00
4. Groundwater No Purge/Surface Water	14	per sample	$8.00		$112.00
R-1. HydraSleeve		per sample	$23.00		$0.00
5. Gauge Welll only		per data point	$1.00		$0.00
6. Sample Below Product		per well	$1.80		$0.00
7. Passive Diffusion Bag		per well	$25.00		$0.00
9. Groundwater (low flow purge)		per well	$25.00		$0.00
10. Equipment Blank		per day	$10.00		$0.00
Q. **Disposal (gallons or tons)**					
1. Wastewater	300	per gallon	$0.33		$99.00
2. Free Product		per gallon	$0.05		$0.00
R. **Miscellaneous**					
2. Additional Potentiometric Map		each above required two	$10.00		$0.00
3. Isopleth Map		each above required one	$50.00		$0.00
4. Data Table		per data set	$100.00		$0.00
5. Redraw/Digitize Site Map		each	$150.00		$0.00
6.Replace Well Lid		each	$10.00		$0.00
Y. **Well Repair**					
1. Additional Copies of Report Delivered		per copy	$10.00		$0.00
5. Replace well cover bolts		each	$6.00		$0.00
6. Replace locking well cap & lock		each	$10.00		$0.00
10. Replace missing/illegible well ID plate		each	$10.00		$0.00
Subtotal					**$2,006.00**
S. Report Preparation/Project Coordination		Percent of Subtotal	0%		
TOTAL					**$2,006.00**



TOPOGRAPHIC MAP	0 1,111 ft.	North ▲	
BLUE RIDGE ENVIRONMENTAL SERVICES, INC. CONSULTING • ENVIRONMENTAL • GEOLOGY		Client:	Robert F. Turner
2315 Kings Road Extension Shelby, North Carolina 28152 (O) 704.482.2111 (F) 704.482.4335 Email: BRESI@BlueRidge-ESI.com SC Contractor: # 0095		Project:	Rhodes Service Station (Former)
		Location:	410 Spartanburg Highway South WellfordF1, South Carolina 29365
		Blue Ridge Project #:	17-6023.4
		Date: 6/17/20	Approximate Scale: 1" = 1,111' Figure 1

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
CONSULTING • ENVIRONMENTAL • GEOLOGY
2315 Kings Road Ext.
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BRESI@BlueRidge-ESI.com
SC Contractor # 0095



Legend & Notes

- Monitoring Well
- Vertical Monitoring Well
- Fiber Optic Line
- Natural Gas Line
- Fence
- Recovery Well

Site Map

Rhodes Service Station (Former)
410 Spartanburg Highway
Wellford, South Carolina 29365

UST Permit No.	Blue Ridge Project No.
08562	17-6023.3
DATE: 12/21/18	Figure 2

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MAY 23 2022

UST 35T DOCKETING

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval
Groundwater Sampling Contract
Solicitation #IFB-5400021335, PO # 4600881589
Rhodes Service Station, 410 Spartanburg Hwy. S., Wellford, SC
UST Permit #08562; MECI CA #64794;Pace CA # 64795
Spartanburg County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed.** The final report is to be submitted to the contract manager.

If you have any site-specific questions, please contact me by email hofferqm@dhec.sc.gov or phone (803) 898-0655. If you have any contract specific questions, please contact Arthur Brown by email brownaj@dhec.sc.gov or phone (803) 898-0500.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Angela Baioni, Pace Analytical Services, 9800 Kincey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)
Technical File (w/ Enc)

Approved Cost Agreement 64795

Facility: 08562 RHODES SERVICE STATION
HOFFERQM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	34.0000	$26.000	884.00
		7	EDB BY EPA 8011	32.0000	$22.000	704.00
				Total Amount		1,588.00

Approved Cost Agreement 64794

Facility: 08562 RHODES SERVICE STATION
HOFFERQM
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION				
	1 SITE SPECIFIC WORK PLAN	1.0000	$425.000	425.00
D MOB/DEMOB				
	2 PERSONNEL	2.0000	$610.000	1,220.00
J SAMPLE COLLECTION				
	1 GROUND WATER PURGE	15.0000	$10.000	150.00
	4 GROUNDWATER NO-PURGE/DUPL/GRAB	14.0000	$8.000	112.00
Q DISPOSAL				
	1 WASTEWATER	300.0000	$0.330	99.00
		Total Amount		2,006.00

MONITORING REPORT

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Spartanburg County
UST Permit# 08562; CA# 64794
Solicitation# IFB-5400021335; PO# 4600830568

Prepared By:

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 Fax: 808-2048

June 17, 2022

MECI Project No. 22-7864

Midlands Environmental Consultants, Inc.

June 17, 2022

Mr. Arthur Brown, Hydrogeologist
Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
York County
UST Permit# 08562; CA# 64794
MECI Project Number 22-7864
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Brown,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

COLIN PHILLIPS REGISTERED No. 2811 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Colin M. Phillips, P.G.
Senior Hydrogeologist

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APPENDIX D – ACCESS AGREEMENTS
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APPENDIX F – PHOTOS

**Not Applicable to Report

1.0 INTRODUCTION

i. Facility Information

Name:	Rhodes Service Station
Address:	410 Spartanburg Highway, Wellford, SC 29385
Telephone #:	N/A

ii. Owner/Operator Information

Name	Odom Oil Company
Address	850 Hayne Street, Spartanburg, SC 29301
Telephone #	N/A

iii. Property Owner Information

Name	KAVYA2015, Inc.
Tax Map #:	Spartanburg County Tax Map# 5-15-08-016.03
Address	410 Spartanburg Highway, Wellford, SC 29385
Telephone #	(864) 305-6215

iv. Contractor Information

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29072
Telephone #:	(803) 808-2043

v. Facility History

Release Date:		1/24/1990	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		N/A	
Release Ranking:		2BB	
Current Site Usage:		Active Gas Station (UST#17817)	
Tank #	**Capacity/Product**	**In Use/Abandoned**	**Tank Status**
1	2,000 Gal. Gasoline	Abandoned	Removed
2	4,000 Gal. Gasoline	Abandoned	Removed
3	2,000 Gal. Gasoline	Abandoned	Removed
4	4,000 Gal. Gasoline	Abandoned	Removed

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
N/A	Site is ranked 2BB; however, no information was provided regarding the location of any known water supply wells

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Commercial
North	Commercial
South	Commercial
East	Commercial
West	Commercial
Permit #'s of UST Sites within 1,000' feet of site	N/A

3.0 SAMPLING AND CHEMICAL ANALYSES

On June 7, 2022, MECI personnel collected groundwater samples from twenty-four (24) monitoring wells at the subject site. One (1) monitoring well (MW-4) was gauged and determined to contain measurable free phase petroleum product. During sampling activities, sampling locations MW-2, MW-7, MW-20 and VMW-2 were not sampled (See Table 2 for details). Based on a request from SCDHEC, only monitoring wells which did not bracket the watertable were to be purged prior to sample collection. One (1) monitoring well was purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1		X					X	X	X				
MW-2						X							
MW-3		X					X	X	X				
MW-4			X										
MW-5		X					X	X	X				
MW-6		X					X	X	X				

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-7						X							
MW-8		X					X	X	X				
MW-9R		X					X	X	X				
MW-10		X					X	X	X				
MW-11		X					X	X	X				
MW-12		X					X	X	X				
MW-13		X					X	X	X				
MW-14R		X					X	X	X				
MW-15		X					X	X	X				
MW-16		X					X	X	X				
MW-17		X					X	X	X				
MW-18		X					X	X	X				
MW-19		X					X	X	X				
MW-20						X							
MW-21		X					X	X	X				
MW-22		X					X	X	X				
MW-23		X					X	X	X				
MW-24		X					X	X	X				
MW-25		X					X	X	X				
VMW-1	X						X	X	X				
VMW-2						X							
RW-1		X					X	X	X				
RW-2		X					X	X	X				
DUP-1							X	X	X				
DUP-2							X	X	X				
Field Blank							X	X	X				
Trip Blank							X	X					

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 23.0 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is to the northeast toward drainage features associated with Savana Branch.

- Free phase petroleum product was detected in monitoring well MW-4 at a thickness of 0.02' feet during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in the area of RW-2. Of the twenty-four sampling locations analyzed, eight locations (MW-1, MW-3, MW-5, MW-9R, MW-15, RW-1, RW-2 and VMW-1) detected petroleum constituents above Risk-Based Screening Levels (RBSL's).

- Petroleum constituents detected above the established RBSL include:

Compound	***RBSL/SCAL (ug/l)***	***Wells Above RBSL***
Product	0.01'	MW-4
Benzene	5	MW-5, RW-2 & VMW-1
Toluene	1,000	MW-1, MW-3, MW-5, MW-15, RW-1 & RW-2
Ethylbenzene	700	MW-1, MW-3, MW-5, MW-15, RW-1 & RW-2
Total Xylenes	10,000	MW-3, MW-5 & RW-2
Naphthalene	25	MW-1, MW-3, MW-15 & RW-1
MTBE	40	N/A
1,2 DCA	5	MW-9R
EDB	0.05	MW-1, MW-5, MW-15 & RW-2
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples of MW-15 and RW-1. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

Table # 1
Summary of Analytical Results - Water Samples
RHODES SERVICE STATION
Facility ID# 08562

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	06/07/2022	<0.020	<125	<2500	<125	<125	<5000	<250	**961**	<125	**289**	**2770**	5900	3920	1980	<2500	<250	<2500	<1250
DUP-2	06/07/2022	**1.0**	<125	<2500	<125	<125	<5000	<250	**1170**	<125	**325**	**3760**	6960	4710	2250	<2500	<250	<2500	<1250
FIELD BLANK	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-1	06/07/2022	**0.11**	<125	<2500	<125	<125	<5000	<250	**1670**	<125	**742**	**3940**	10000	6470	3560	<2500	<250	<2500	<1250
MW-10R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-11	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-12	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-13R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-14R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-15	06/07/2022	**0.75**	<100	<2000	<100	<100	<4000	<200	**1140**	<100	**300**	**3070**	6250	4310	1940	<2000	<200	<2000	<1000
MW-16	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-17	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-18	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-19	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-21	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-22	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-23	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-24	06/07/2022	<0.021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-25	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-3	06/07/2022	<0.020	<250	<5000	<250	<250	<10000	<500	**3090**	<250	**565**	**1780**	**12800**	10900	1940	<5000	<500	<5000	<2500
MW-5	06/07/2022	**95.4**	<1250	<25000	**5530**	<1250	<50000	<2500	**3470**	<1250	<1250	**39800**	**18600**	12600	6000	<25000	<2500	<25000	<12500
MW-6	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-8	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-9R	06/07/2022	<0.021	**5.2**	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	13.1	<5.0	<5.0	<10.0	<5.0	103	<10.0	<100	<50.0
RW-1	06/07/2022	<0.020	<125	<2500	<125	<125	<5000	<250	**1750**	<125	**417**	**3930**	10000	6910	3130	<2500	<250	<2500	<1250
RW-2	06/07/2022	**1090**	<1250	<25000	**24100**	<1250	<50000	<2500	**3350**	<1250	<1250	**42800**	**17600**	11800	5780	<25000	<2500	<25000	<12500
TB	06/07/2022	N/A	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
VMW-1	06/07/2022	<0.020	<5.0	<100	**12.6**	<5.0	<200	<10.0	<5.0	<5.0	<5.0	24.9	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:
ND = Not Detected
ft. BGS = feet below ground surface
mg/L = milligrams per liter
ug/L = micrograms per liter
Bold data above the RBSL (Risk Based Screening Level)

Table 2
Site Activity Summary

UST Permit #:	08562
Facility Name:	Rhodes Service Station
County:	Spartanburg
Field Personnel:	J. Canavan, C. Hansen, M. Funderburk, S. Sprott

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-1	Y	6/7/22	11:36	15-25	***	16.51	***	100.00	83.49	1.21	0.00	Strong Odor
MW-2	N	6/7/22	NL	15-25	***	NL	***	99.04	NL	NL	0.00	Not Located / Possibly Destroyed
MW-3	Y	6/7/22	12:21	15-25	***	15.79	***	99.57	83.78	1.09	0.00	Strong Odor
MW-4	N	6/7/22	FPP	10-30	15.70	15.72	0.02	98.65	82.95	FPP	0.00	FPP = Free Phase Petroleum Product
MW-5	Y	6/7/22	12:08	10-30	***	15.04	***	97.85	82.81	0.61	0.00	Strong Odor
MW-6	Y	6/7/22	10:46	10-30	***	15.43	***	97.87	82.44	2.35	0.00	No Odor
MW-7	N	6/7/22	NL	10-30	***	NL	***	97.26	NL	NL	0.00	Not Located/Possibly Detroyed
MW-8	Y	6/7/22	10:05	10-30	***	17.62	***	99.33	81.71	1.86	0.00	No Odor
MW-9R	Y	6/7/22	9:30	10-30	***	18.63	***	98.43	79.80	2.57	0.00	No Odor
MW-10	Y	6/7/22	9:33	10-30	***	17.89	***	98.71	80.82	5.14	0.00	No Odor
MW-11	Y	6/7/22	9:45	7-27	***	16.26	***	98.49	82.23	2.50	0.00	No Odor
MW-12	Y	6/7/22	10:03	10-30	***	15.68	***	97.75	82.07	2.35	0.00	No Odor
MW-13	Y	6/7/22	9:38	15-35	***	18.22	***	99.30	81.08	5.15	0.00	No Odor
MW-14R	Y	6/7/22	9:26	10-30	***	17.97	***	99.96	81.99	4.91	0.00	No Odor
MW-15	Y	6/7/22	11:28	10-30	***	14.72	***	97.79	83.07	0.82	0.00	Strong Odor
											0.00	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #:	08562
Facility Name:	Rhodes Service Station
County:	Spartanburg
Field Personnel:	J. Canavan, C. Hansen, M. Funderburk, S. Sprott

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-16	Y	6/7/22	11:02	10-30	***	15.80	***	98.68	82.88	3.05	0.00	No Odor
MW-17	Y	6/7/22	10:38	10-30	***	15.81	***	98.89	83.08	2.47	0.00	No Odor
MW-18	Y	6/7/22	10:31	10-30	***	14.63	***	98.43	83.80	1.50	0.00	No Odor
MW-19	Y	6/7/22	9:13	15-35	***	19.42	***	Unknown	Unknown	6.65	0.00	No Odor
MW-20	N	6/7/22	NL	10-30	***	NL	***	98.68	NL	NL	0.00	Not Located / Possibly Destroyed
MW-21	Y	6/7/22	11:09	15-35	***	16.94	***	99.39	82.45	6.01	0.00	No Odor
MW-22	Y	6/7/22	10:50	15-35	***	15.50	***	97.96	82.46	3.66	0.00	No Odor
MW-23	Y	6/7/22	10:09	10-30	***	14.51	***	97.33	82.82	5.72	0.00	No Odor
MW-24	Y	6/7/22	10:33	15-35	***	17.27	***	98.13	80.86	1.67	0.00	No Odor
MW-25	Y	6/7/22	9:15	10-30	***	17.89	***	98.06	80.17	3.24	0.00	No Odor
VMW-1	Y	6/7/22	15:26	55-60	***	14.59	***	98.32	83.73	1.14	23.00	No Odor
VMW-2	N	6/7/22	NL	34-41	***	NL	***	98.32	NL	NL	0.00	Not Located
RW-1	Y	6/7/22	11:16	15-35	***	16.29	***	98.74	82.45	0.94	0.00	Strong Odor, 4"-Inch Diameter Well
RW-2	Y	6/7/22	12:13	15-35	***	15.33	***	98.48	83.15	1.21	0.00	Strong Odor, 4"-Inch Diameter Well
DUP-1	Y	6/7/22	11:16	***	***	***	***	***	***	***	***	Duplicate of RW-1
											23.00	**TOTAL GALLONS PURGED**

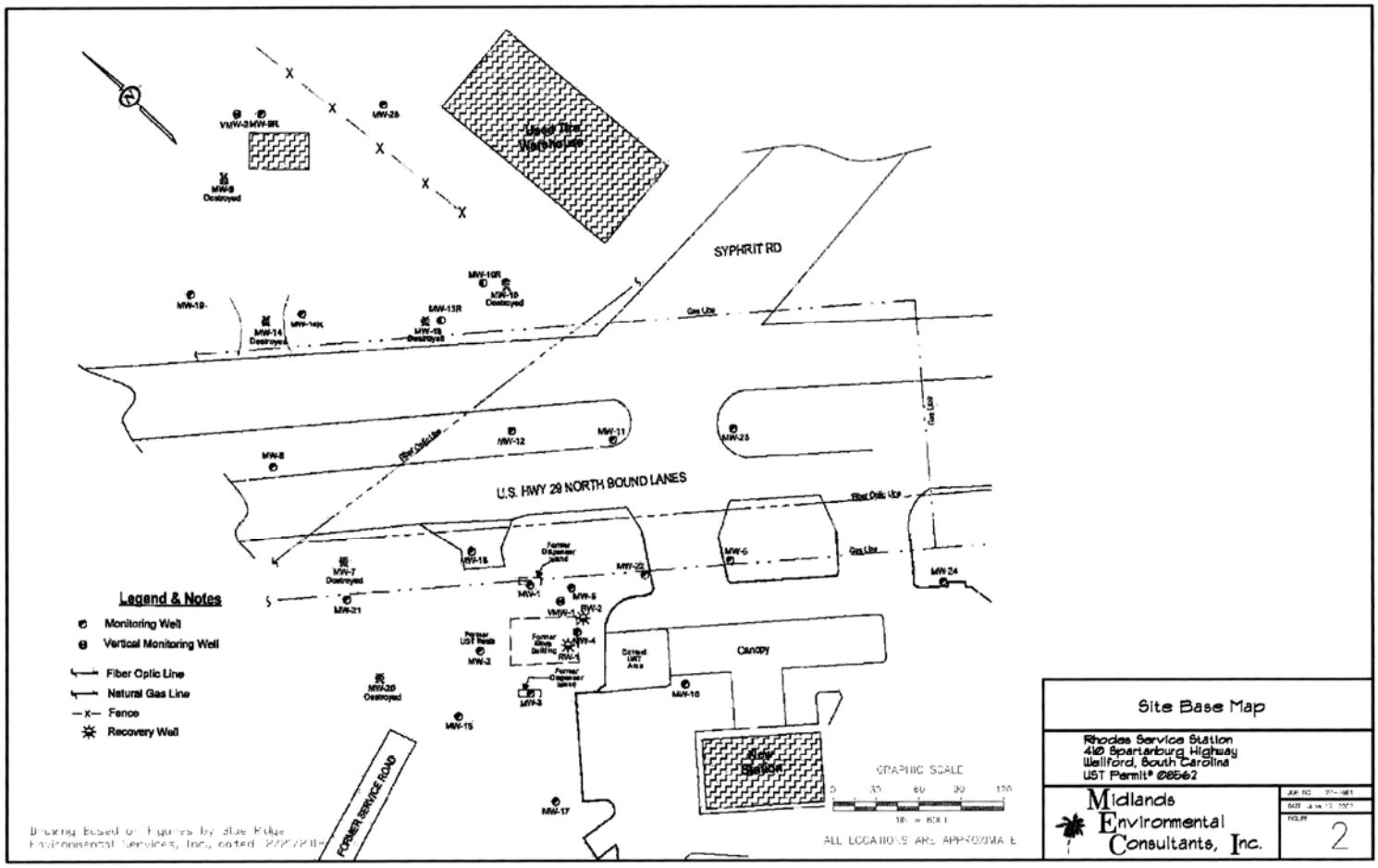
Table 2
Site Activity Summary

UST Permit #:	08562
Facility Name:	Rhodes Service Station
County:	Spartanburg
Field Personnel:	J. Canavan, C. Hansen, M. Funderburk, S. Sprott

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
DUP-2	Y	6/7/22	11:28	***	***	***	***	***	***	***	***	Duplicate of MW-15
Field Blank	Y	6/7/22	10:39	***	***	***	***	***	***	***	***	Field Blank
Trip Blank	Y	6/7/22	8:00	***	***	***	***	***	***	***	***	Trip Blank
											0.00	**TOTAL GALLONS PURGED**

FIGURES

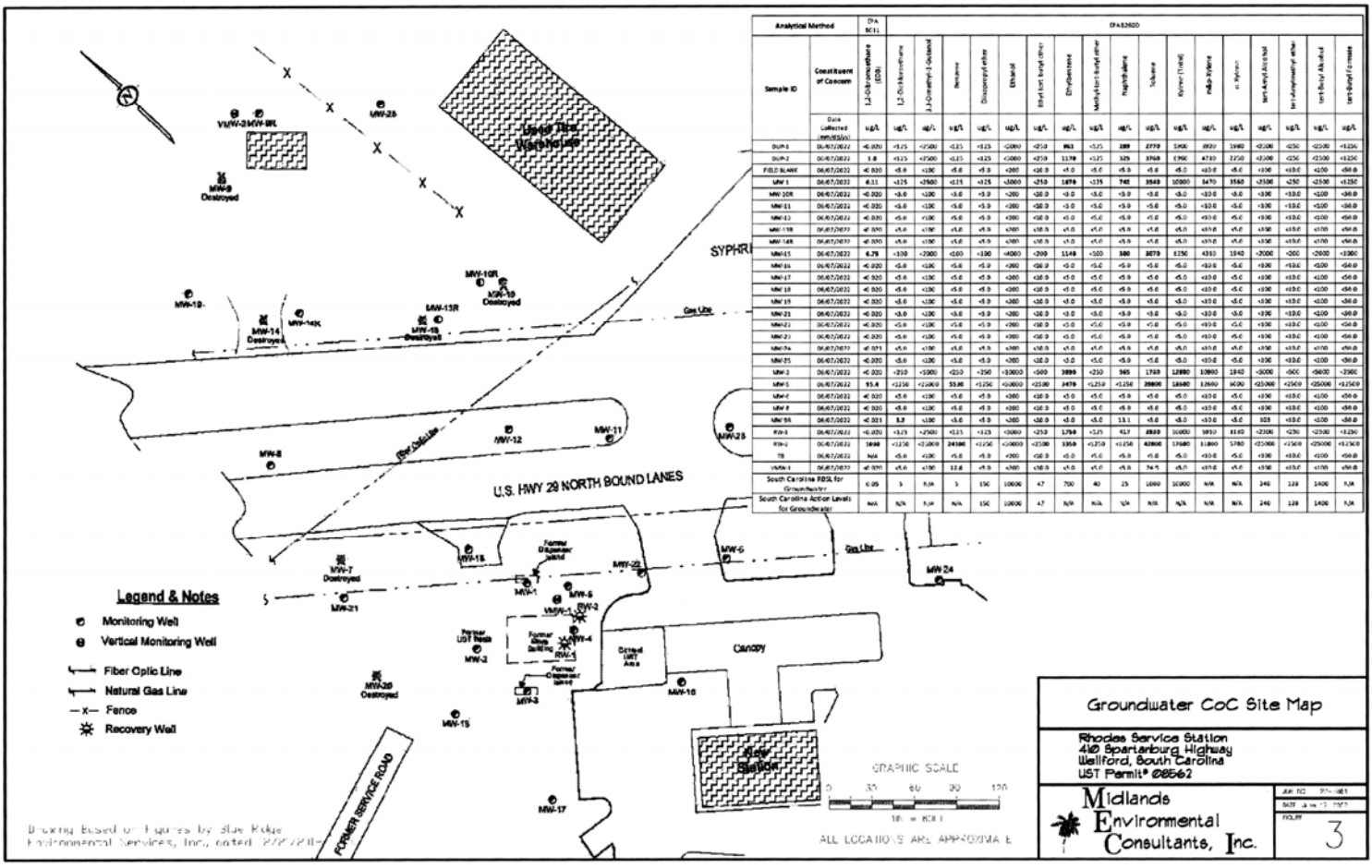


Site Base Map

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
UST Permit# 08562

Midlands Environmental Consultants, Inc.

FIGURE 2



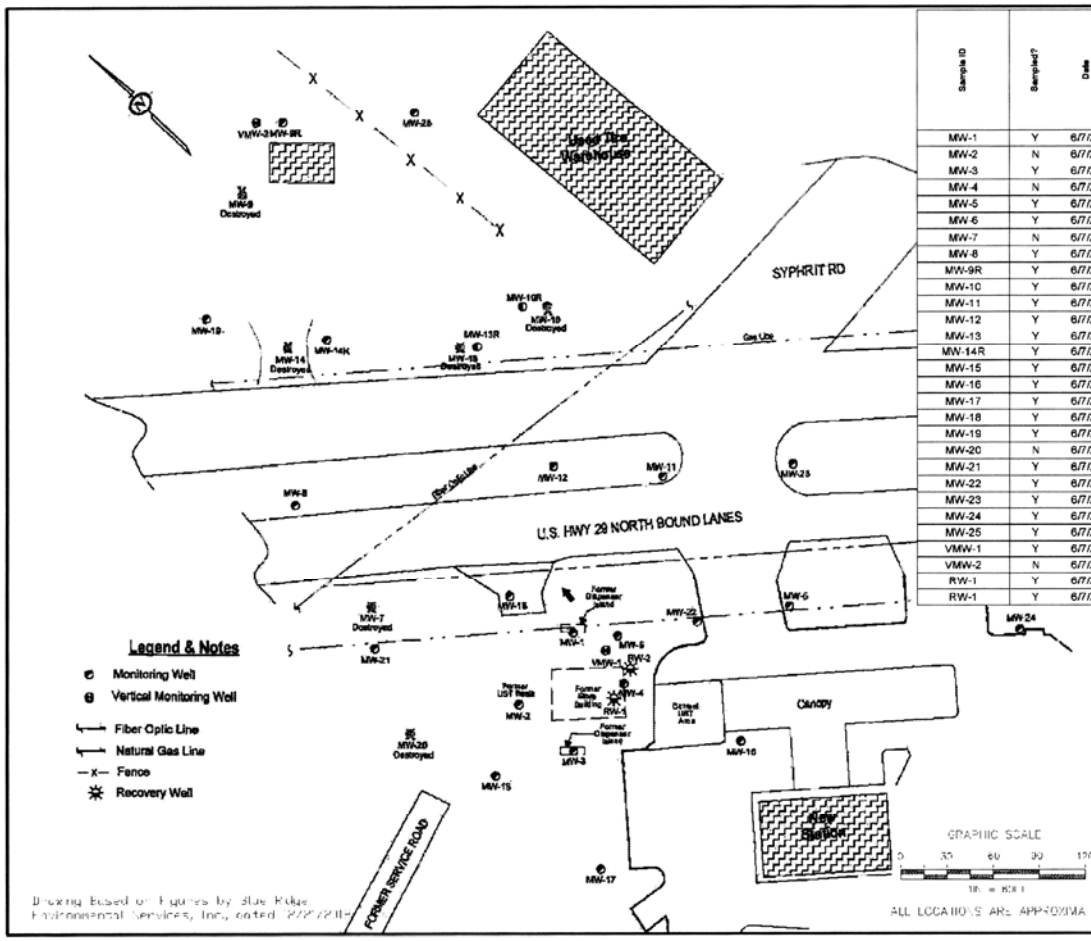
Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	1,2-Dimethyl-Benzene	Benzene	Diisopropyl ether	Ethanol	Ethyl tert-butyl ether	Ethylbenzene	Methyl tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	06/07/2022	<0.020	<125	<2500	<125	<125	<5000	<250	**963**	<125	**289**	**2770**	1900	890	1010	<2500	<250	<2500	<1250
DUP-2	06/07/2022	1.8	<125	<2500	<125	<125	<5000	<250	1170	<125	325	3760	1790	670	1120	<2500	<250	<2500	<1250
FIELD BLANK	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<10.0	<5.0	<50.0
MW-1	06/07/2022	0.11	<125	<2500	<125	<125	<5000	<250	1070	<125	742	3540	10000	5470	3560	<2500	<250	<2500	<1250
MW-10R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-11	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-12	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-13R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-14R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-15	06/07/2022	**0.79**	<100	<2000	<100	<100	<4000	<200	**1140**	<100	**386**	**3070**	**1250**	**810**	**1040**	<2000	<200	<2000	<1000
MW-16	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-17	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-18	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-19	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-21	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-22	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-23	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-24	06/07/2022	<0.021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-25	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-2	06/07/2022	<0.020	<250	<5000	<250	<250	<10000	<500	**3890**	<250	**565**	**1760**	**12890**	**10860**	**1940**	<5000	<500	<5000	<2500
MW-3	06/07/2022	**55.8**	<1250	<25000	**5530**	<1250	<50000	<2500	**3470**	<1250	<1250	**29800**	**16680**	**13660**	**3020**	<25000	<2500	<25000	<12500
MW-4	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-5	06/07/2022	<0.021	**5.2**	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	13.1	<5.0	<5.0	<10.0	<5.0	103	<10.0	<5.0	<50.0
MW-6	06/07/2022	<0.020	<125	<2500	<125	<125	<5000	<250	**1750**	<125	**417**	**4820**	10000	5810	4140	<2500	<250	<2500	<1250
MW-7	06/07/2022	**1690**	<1250	<25000	24300	<1250	<50000	<2500	3350	<1250	<1250	62900	17680	11800	5780	<25000	<2500	<25000	<12500
TB	06/07/2022	NA	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
MW-8	06/07/2022	<0.020	<5.0	<100	12.6	<5.0	<200	<10.0	<5.0	<5.0	<5.0	74.5	<5.0	<10.0	<5.0	<100	<10.0	<5.0	<50.0
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	120	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	120	1400	N/A

Groundwater CoC Site Map

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
UST Permit# 08562

Midlands Environmental Consultants, Inc.

JOB NO. [illegible]
DATE June 12, 2022
FIGURE 3



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
MW-1	Y	6/7/22	11:36	15-25	***	16.51	***	100.00	83.49
MW-2	N	6/7/22	NL	15-25	***	NL	***	99.04	NL
MW-3	Y	6/7/22	12:21	15-25	***	15.79	***	99.57	83.78
MW-4	N	6/7/22	FPP	10-30	15.70	15.72	0.02	98.65	82.95
MW-5	Y	6/7/22	12:08	10-30	***	15.04	***	97.85	82.81
MW-6	Y	6/7/22	10:46	10-30	***	15.43	***	97.87	82.44
MW-7	N	6/7/22	NL	10-30	***	NL	***	97.26	NL
MW-8	Y	6/7/22	10:05	10-30	***	17.62	***	99.33	81.71
MW-9R	Y	6/7/22	9:30	10-30	***	18.63	***	98.43	79.80
MW-10	Y	6/7/22	9:33	10-30	***	17.89	***	98.71	80.82
MW-11	Y	6/7/22	9:45	7-27	***	16.26	***	98.49	82.23
MW-12	Y	6/7/22	10:03	10-30	***	15.88	***	97.75	82.07
MW-13	Y	6/7/22	9:38	15-35	***	18.22	***	99.30	81.08
MW-14R	Y	6/7/22	9:26	10-30	***	17.97	***	99.96	81.99
MW-15	Y	6/7/22	11:28	10-30	***	14.72	***	97.79	83.07
MW-16	Y	6/7/22	11:02	10-30	***	15.80	***	98.68	82.88
MW-17	Y	6/7/22	10:38	10-30	***	15.81	***	98.89	83.08
MW-18	Y	6/7/22	10:31	10-30	***	14.63	***	98.43	83.80
MW-19	Y	6/7/22	9:13	15-35	***	19.42	***	Unknown	Unknown
MW-20	N	6/7/22	NL	10-30	***	NL	***	98.68	NL
MW-21	Y	6/7/22	11:09	15-35	***	16.94	***	99.39	82.45
MW-22	Y	6/7/22	10:50	15-35	***	15.50	***	97.96	82.46
MW-23	Y	6/7/22	10:09	10-30	***	14.51	***	97.33	82.82
MW-24	Y	6/7/22	10:33	15-35	***	17.27	***	98.13	80.86
MW-25	Y	6/7/22	9:15	10-30	***	17.89	***	98.06	80.17
VMW-1	Y	6/7/22	15:26	55-60	***	14.59	***	98.32	83.73
VMW-2	N	6/7/22	NL	34-41	***	NL	***	98.32	NL
RW-1	Y	6/7/22	11:16	15-35	---	16.29	---	98.74	82.45
RW-1	Y	6/7/22	12:13	15-35	***	15.33	***	98.48	83.15

Potentiometric Data Site Map

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
UST Permit# 08562

Midlands Environmental Consultants, Inc.

JOB NO. 97-481
DATE June 13, 2022
FIGURE 4

APPENDIX A:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 8/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-1	Initial	11:36	9.79	931	19.2	1.21	17.50		16.61		15.25				Strong odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-2	Initial	obayed on site visit									15.25				
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-3	Initial	12:21	5.97	887	17.7	1.09	17.58								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								15.79		15.25				Strong odor flagged manhole
mw-4	Initial														
	1st														
	2nd	Product													
	3rd														
	4th														
	5th														
	Sampling							15.72	15.79		10.37				product .2"

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 8/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-5	Initial	12:08	7.59	53.2	18.1	.61	19.59		15.09		10.30	/	/	/	Strong odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-6	Initial	10:36	4.64	96.1	19.5	2.35	17.88		15.13		10-30	/	/	/	no odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-7	Initial														
	1st														
	2nd		Destroyed								10-39				
	3rd														
	4th														
	5th														
	Sampling														
mw-8	Initial	10:05	5.19	90.5	19.3	1.86	17.52		17.62		10-30	/	/	/	no odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 8/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-9	Initial														
	1st														
	2nd		Destroyed												
	3rd										10.30				
	4th														
	5th														
	Sampling														
mw-9r	Initial	9:30	4.88	79.7	18.4	2.57	18.24								
	1st														
	2nd														
	3rd								18.63		10.30	(	(	(	no odor
	4th														
	5th														
	Sampling														
mw-10r	Initial	9:33	4.91	77.1	18.4	5.14	19.99								
	1st														
	2nd														
	3rd								17.89		10.30	(	(	(	no odor
	4th														
	5th														
	Sampling														
mw-11	Initial	9:45	5.36	65.9	19.9	2.50	20.19								
	1st														
	2nd														
	3rd								16.26		7.27	(	(	(	no odor
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 8/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7869

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-12	Initial	10:03	4.96	75.1	19.5	2.35	18.13		15.68		10-30	/	/	/	no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-13r	Initial	9:38	4.92	98.6	18.2	5.15	19.36		18.22		15-35	/	/	/	no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-14	Initial	[illegible]							[illegible]		15-35	/	/	/	[illegible]
	1st														
	2nd			Dry											
	3rd														
	4th														
	5th														
	Sampling														
mw-19r	Initial	9:26	4.82	89.7	18.5	4.91	18.13		17.97		10-30	/	/	/	no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 6/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-15 Dup2	Initial	11:28	5.55	489	18.5	.82	15.17		14.72		10-30	/	/	/	Strong odor
	1st												/		Dup2
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-16	Initial	11:02	4.56	96.1	19.6	3.05	20.59		15.80		10-30	/	/	/	no odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-17	Initial	10:38	4.13	251.7	18.6	2.47	19.59		15.21		10-30	/	/	/	no odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-18	Initial	10:31	4.93	469	18.1	1.50	17.52		14.63		10-30	/	/	/	no odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

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Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 6/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-19	Initial	9:13	7.91	62.6	18.9	6.65	1856		19.42		15-35	1	5	1	no odor
	1st												1		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-20	Initial	Destroyed									10-30				
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-21	Initial	11:09	5.07	20.7	18.3	6.01	29.55		16.94		15-35	1	5	1	no odor
	1st												1		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-22	Initial	10:50	4.63	100.5	19.2	3.66	19.02		15.50		15-35	1	1	1	no odor
	1st												1		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

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1"	0.047
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6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 6/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-23	Initial	10:09	5.51	77.6	19.5	5.22	21.47		14.51		10-30	/	/	/	no odor
	1st														
	2nd														
	3rd														
	4th												/		
	5th														
	Sampling														
mw-24	Initial	10:33	4.88	55.2	19.1	1.67	20.15		17.27		15-35	/	/	/	no odor
	1st														
	2nd														
	3rd														
	4th												/		
	5th														
	Sampling														
mw-25	Initial	9:15	6.52	120.6	18.6	3.24	18.53		17.89		10-30	?	/	/	no odor
	1st														
	2nd														
	3rd														
	4th												/		
	5th														
	Sampling														
UMw-1	Initial	11:40	5.31	326.3	18.9	1.19	24.13		14.59	23.57	55-60	45.41	7.40	Dry @ 23 gal	no odor
	1st	11:52	5.12	299.8	19.2	1.06	29.67								
	2nd	12:08	5.88	353.5	19.3	1.56	38.12								
	3rd	12:18	5.49	340.2	19.3	1.11	49.63								
	4th												37.00		
	5th														
	Sampling	15:26	5.35	390.7	19.9	1.21	27.45								

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6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JC, SS, CH, MF

Sampling Date(s): 6/7/22

Sampling Case#: #2

Job Name: Rhodes Service Station

Job Number: 22-7864

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
VMW-2	Initial										39.41				
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
rw-1 Dup1	Initial	11:16	420.2	5.01	18.2	.94	18.40				15.35	/	/	/	4 inch Dup1 Strong odor
	1st														
	2nd								16.29						
	3rd														
	4th														
	5th														
	Sampling														
rw-2	Initial	12:13	6.04	865.0	18.5	121	23.15				15.35	/	/	/	4 inch Strong odor
	1st														
	2nd								15.33						
	3rd														
	4th														
	5th														
	Sampling														
Dup1 Dup2 FB GAC TB	Initial	rw-1	11:16												
	1st														
	2nd	MW-15	11:28												
	3rd														
	4th	10:39													
	5th	12:15													
	Sampling	0800													

Okayed on site visit

*= (Depth of Well) - (Depth to Water = Water Height

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**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 15, 2022

Arthur Brown
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Dear Arthur Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Charlotte

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

Sincerely,

Taylor M Cannon
taylor.cannon@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Robert Dunn, SCDHEC
Kyle Pudney, Midlands Environmental Consultants, Inc.

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
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 Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92608777001	MW-1	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777002	MW-3	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777003	MW-5	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777004	MW-6	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777005	MW-8	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777006	MW-9R	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777007	MW-10R	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777008	MW-11	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777009	MW-12	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777010	MW-13R	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777011	MW-14R	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777012	MW-15	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777013	MW-16	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777014	MW-17	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777015	MW-18	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777016	MW-19	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777017	MW-21	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777018	MW-22	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777019	MW-23	EPA 8011	AP2	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	NSCQ	20	PASI-C
92608777020	MW-24	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777021	MW-25	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777022	VMW-1	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777023	RW-1	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777024	RW-2	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777025	DUP-1	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777026	DUP-2	EPA 8011	AP2	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92608777027	FIELD BLANK	EPA 8011	AP2	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92608777028	TB	EPA 8260D	NSCQ	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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www.pacelabs.com

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9800 Kincey Ave. Suite 100
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(704)875-9092

SUMMARY OF DETECTION

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92608777001	**MW-1**					
EPA 8011	1,2-Dibromoethane (EDB)	0.11	ug/L	0.020	06/10/22 11:40	
EPA 8260D	Ethylbenzene	1670	ug/L	125	06/10/22 20:06	
EPA 8260D	Naphthalene	742	ug/L	125	06/10/22 20:06	
EPA 8260D	Toluene	3940	ug/L	125	06/10/22 20:06	
EPA 8260D	Xylene (Total)	10000	ug/L	125	06/10/22 20:06	
EPA 8260D	m&p-Xylene	6470	ug/L	250	06/10/22 20:06	
EPA 8260D	o-Xylene	3560	ug/L	125	06/10/22 20:06	
92608777002	**MW-3**					
EPA 8260D	Ethylbenzene	3090	ug/L	250	06/10/22 20:43	
EPA 8260D	Naphthalene	565	ug/L	250	06/10/22 20:43	
EPA 8260D	Toluene	1780	ug/L	250	06/10/22 20:43	
EPA 8260D	Xylene (Total)	12800	ug/L	250	06/10/22 20:43	
EPA 8260D	m&p-Xylene	10900	ug/L	500	06/10/22 20:43	
EPA 8260D	o-Xylene	1940	ug/L	250	06/10/22 20:43	
92608777003	**MW-5**					
EPA 8011	1,2-Dibromoethane (EDB)	95.4	ug/L	2.5	06/10/22 15:37	
EPA 8260D	Benzene	5530	ug/L	1250	06/10/22 21:01	
EPA 8260D	Ethylbenzene	3470	ug/L	1250	06/10/22 21:01	
EPA 8260D	Toluene	39800	ug/L	1250	06/10/22 21:01	
EPA 8260D	Xylene (Total)	18600	ug/L	1250	06/10/22 21:01	
EPA 8260D	m&p-Xylene	12600	ug/L	2500	06/10/22 21:01	
EPA 8260D	o-Xylene	6000	ug/L	1250	06/10/22 21:01	
92608777006	**MW-9R**					
EPA 8260D	tert-Amyl Alcohol	103	ug/L	100	06/10/22 02:53	
EPA 8260D	1,2-Dichloroethane	5.2	ug/L	5.0	06/10/22 02:53	
EPA 8260D	Naphthalene	13.1	ug/L	5.0	06/10/22 02:53	
92608777012	**MW-15**					
EPA 8011	1,2-Dibromoethane (EDB)	0.75	ug/L	0.020	06/10/22 14:11	
EPA 8260D	Ethylbenzene	1140	ug/L	100	06/10/22 21:20	
EPA 8260D	Naphthalene	300	ug/L	100	06/10/22 21:20	
EPA 8260D	Toluene	3070	ug/L	100	06/10/22 21:20	
EPA 8260D	Xylene (Total)	6250	ug/L	100	06/10/22 21:20	
EPA 8260D	m&p-Xylene	4310	ug/L	200	06/10/22 21:20	
EPA 8260D	o-Xylene	1940	ug/L	100	06/10/22 21:20	
92608777022	**VMW-1**					
EPA 8260D	Benzene	12.6	ug/L	5.0	06/14/22 11:12	
EPA 8260D	Toluene	24.9	ug/L	5.0	06/14/22 11:12	
92608777023	**RW-1**					
EPA 8260D	Ethylbenzene	1750	ug/L	125	06/15/22 13:51	
EPA 8260D	Naphthalene	417	ug/L	125	06/15/22 13:51	
EPA 8260D	Toluene	3930	ug/L	125	06/15/22 13:51	
EPA 8260D	Xylene (Total)	10000	ug/L	125	06/15/22 13:51	
EPA 8260D	m&p-Xylene	6910	ug/L	250	06/15/22 13:51	
EPA 8260D	o-Xylene	3130	ug/L	125	06/15/22 13:51	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92608777024	**RW-2**					
EPA 8011	1,2-Dibromoethane (EDB)	1090	ug/L	48.8	06/13/22 10:56	
EPA 8260D	Benzene	24100	ug/L	1250	06/14/22 05:53	
EPA 8260D	Ethylbenzene	3350	ug/L	1250	06/14/22 05:53	
EPA 8260D	Toluene	42800	ug/L	1250	06/14/22 05:53	
EPA 8260D	Xylene (Total)	17600	ug/L	1250	06/14/22 05:53	
EPA 8260D	m&p-Xylene	11800	ug/L	2500	06/14/22 05:53	
EPA 8260D	o-Xylene	5780	ug/L	1250	06/14/22 05:53	
92608777025	**DUP-1**					
EPA 8260D	Ethylbenzene	961	ug/L	125	06/14/22 01:53	
EPA 8260D	Naphthalene	289	ug/L	125	06/14/22 01:53	
EPA 8260D	Toluene	2770	ug/L	125	06/14/22 01:53	
EPA 8260D	Xylene (Total)	5900	ug/L	125	06/14/22 01:53	
EPA 8260D	m&p-Xylene	3920	ug/L	250	06/14/22 01:53	
EPA 8260D	o-Xylene	1980	ug/L	125	06/14/22 01:53	
92608777026	**DUP-2**					
EPA 8011	1,2-Dibromoethane (EDB)	1.0	ug/L	0.040	06/13/22 11:07	
EPA 8260D	Ethylbenzene	1170	ug/L	125	06/15/22 14:09	
EPA 8260D	Naphthalene	325	ug/L	125	06/15/22 14:09	
EPA 8260D	Toluene	3760	ug/L	125	06/15/22 14:09	
EPA 8260D	Xylene (Total)	6960	ug/L	125	06/15/22 14:09	
EPA 8260D	m&p-Xylene	4710	ug/L	250	06/15/22 14:09	
EPA 8260D	o-Xylene	2250	ug/L	125	06/15/22 14:09	

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PROJECT NARRATIVE

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: SCDHEC
Date: June 15, 2022

General Information:
27 samples were analyzed for EPA 8011 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 703552

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- MW-5 (Lab ID: 92608777003)
  - 1-Chloro-2-bromopropane (S)

QC Batch: 703553

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- RW-2 (Lab ID: 92608777024)
  - 1-Chloro-2-bromopropane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: June 15, 2022

General Information:
28 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 703462

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92608777011

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

- MS (Lab ID: 3671101)
  - 1,2-Dichloroethane
  - 3,3-Dimethyl-1-Butanol
  - Diisopropyl ether
  - Ethanol
  - Ethyl-tert-butyl ether
  - Methyl-tert-butyl ether
  - Naphthalene
  - tert-Amyl Alcohol
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol
- MSD (Lab ID: 3671102)

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PROJECT NARRATIVE

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: June 15, 2022

QC Batch: 703462

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92608777011

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

- 1,2-Dichloroethane
- 3,3-Dimethyl-1-Butanol
- Diisopropyl ether
- Ethyl-tert-butyl ether
- Methyl-tert-butyl ether
- Naphthalene
- tert-Amyl Alcohol
- tert-Amylmethyl ether

QC Batch: 703463

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92608777016

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3671105)
  - tert-Butyl Formate
- MSD (Lab ID: 3671106)
  - tert-Butyl Formate

QC Batch: 704106

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92609281021

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

- MS (Lab ID: 3674418)
  - tert-Butyl Formate
- MSD (Lab ID: 3674419)
  - tert-Butyl Formate

QC Batch: 704120

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92608980007

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

- MS (Lab ID: 3674476)
  - Toluene
  - tert-Amyl Alcohol
- MSD (Lab ID: 3674477)
  - Toluene

QC Batch: 704398

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92608980022

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

- MS (Lab ID: 3675691)
  - Toluene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: June 15, 2022

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-1 **Lab ID: 92608777001** Collected: 06/07/22 11:36 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	**0.11**	ug/L	0.020	1	06/10/22 09:37	06/10/22 11:40	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	96	%	60-140	1	06/10/22 09:37	06/10/22 11:40	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	2500	25		06/10/22 20:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	25		06/10/22 20:06	994-05-8	
Benzene	ND	ug/L	125	25		06/10/22 20:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	25		06/10/22 20:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	25		06/10/22 20:06	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	25		06/10/22 20:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	25		06/10/22 20:06	107-06-2	
Diisopropyl ether	ND	ug/L	125	25		06/10/22 20:06	108-20-3	
Ethanol	ND	ug/L	5000	25		06/10/22 20:06	64-17-5	
Ethylbenzene	**1670**	ug/L	125	25		06/10/22 20:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	25		06/10/22 20:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	25		06/10/22 20:06	1634-04-4	
Naphthalene	**742**	ug/L	125	25		06/10/22 20:06	91-20-3	
Toluene	**3940**	ug/L	125	25		06/10/22 20:06	108-88-3	
Xylene (Total)	**10000**	ug/L	125	25		06/10/22 20:06	1330-20-7	
m&p-Xylene	**6470**	ug/L	250	25		06/10/22 20:06	179601-23-1	
o-Xylene	**3560**	ug/L	125	25		06/10/22 20:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	25		06/10/22 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	25		06/10/22 20:06	17060-07-0	
Toluene-d8 (S)	103	%	70-130	25		06/10/22 20:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-3 **Lab ID: 92608777002** Collected: 06/07/22 12:21 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 12:02	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	111	%	60-140	1	06/10/22 09:37	06/10/22 12:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	5000	50		06/10/22 20:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		06/10/22 20:43	994-05-8	
Benzene	ND	ug/L	250	50		06/10/22 20:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		06/10/22 20:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		06/10/22 20:43	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		06/10/22 20:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	50		06/10/22 20:43	107-06-2	
Diisopropyl ether	ND	ug/L	250	50		06/10/22 20:43	108-20-3	
Ethanol	ND	ug/L	10000	50		06/10/22 20:43	64-17-5	
Ethylbenzene	**3090**	ug/L	250	50		06/10/22 20:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		06/10/22 20:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	50		06/10/22 20:43	1634-04-4	
Naphthalene	**565**	ug/L	250	50		06/10/22 20:43	91-20-3	
Toluene	**1780**	ug/L	250	50		06/10/22 20:43	108-88-3	
Xylene (Total)	**12800**	ug/L	250	50		06/10/22 20:43	1330-20-7	
m&p-Xylene	**10900**	ug/L	500	50		06/10/22 20:43	179601-23-1	
o-Xylene	**1940**	ug/L	250	50		06/10/22 20:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	50		06/10/22 20:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	50		06/10/22 20:43	17060-07-0	
Toluene-d8 (S)	108	%	70-130	50		06/10/22 20:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-5 **Lab ID: 92608777003** Collected: 06/07/22 12:08 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	**95.4**	ug/L	2.5	125	06/10/22 09:37	06/10/22 15:37	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	0	%	60-140	125	06/10/22 09:37	06/10/22 15:37	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	25000	250		06/10/22 21:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	250		06/10/22 21:01	994-05-8	
Benzene	**5530**	ug/L	1250	250		06/10/22 21:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	250		06/10/22 21:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	250		06/10/22 21:01	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	250		06/10/22 21:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	250		06/10/22 21:01	107-06-2	
Diisopropyl ether	ND	ug/L	1250	250		06/10/22 21:01	108-20-3	
Ethanol	ND	ug/L	50000	250		06/10/22 21:01	64-17-5	
Ethylbenzene	**3470**	ug/L	1250	250		06/10/22 21:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	250		06/10/22 21:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	250		06/10/22 21:01	1634-04-4	
Naphthalene	ND	ug/L	1250	250		06/10/22 21:01	91-20-3	
Toluene	**39800**	ug/L	1250	250		06/10/22 21:01	108-88-3	
Xylene (Total)	**18600**	ug/L	1250	250		06/10/22 21:01	1330-20-7	
m&p-Xylene	**12600**	ug/L	2500	250		06/10/22 21:01	179601-23-1	
o-Xylene	**6000**	ug/L	1250	250		06/10/22 21:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	250		06/10/22 21:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	250		06/10/22 21:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130	250		06/10/22 21:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-6 **Lab ID: 92608777004** Collected: 06/07/22 10:46 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 12:45	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	105	%	60-140	1	06/10/22 09:37	06/10/22 12:45	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 19:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 19:11	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 19:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 19:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 19:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 19:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 19:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 19:11	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 19:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 19:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 19:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 19:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 19:11	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 19:11	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 19:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 19:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 19:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/10/22 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		06/10/22 19:11	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		06/10/22 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-8 **Lab ID: 92608777005** Collected: 06/07/22 10:05 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 12:55	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	100	%	60-140	1	06/10/22 09:37	06/10/22 12:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 02:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 02:34	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 02:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 02:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 02:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 02:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 02:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 02:34	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 02:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 02:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 02:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 02:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 02:34	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 02:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 02:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 02:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 02:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/10/22 02:34	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/10/22 02:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/22 02:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-9R **Lab ID: 92608777006** Collected: 06/07/22 09:30 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	06/10/22 09:37	06/10/22 13:06	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	101	%	60-140	1	06/10/22 09:37	06/10/22 13:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**103**	ug/L	100	1		06/10/22 02:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 02:53	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 02:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 02:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 02:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 02:53	762-75-4	
1,2-Dichloroethane	**5.2**	ug/L	5.0	1		06/10/22 02:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 02:53	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 02:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 02:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 02:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 02:53	1634-04-4	
Naphthalene	**13.1**	ug/L	5.0	1		06/10/22 02:53	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 02:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 02:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 02:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 02:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/10/22 02:53	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		06/10/22 02:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/22 02:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-10R **Lab ID: 92608777007** Collected: 06/07/22 09:33 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 13:17	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	101	%	60-140	1	06/10/22 09:37	06/10/22 13:17	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 03:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 03:11	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 03:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 03:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 03:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 03:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 03:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 03:11	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 03:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 03:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 03:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 03:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 03:11	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 03:11	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 03:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 03:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 03:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-130	1		06/10/22 03:11	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/10/22 03:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/22 03:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-11 **Lab ID: 92608777008** Collected: 06/07/22 09:45 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 13:28	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	06/10/22 09:37	06/10/22 13:28	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 03:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 03:30	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 03:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 03:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 03:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 03:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 03:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 03:30	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 03:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 03:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 03:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 03:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 03:30	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 03:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 03:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 03:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 03:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/10/22 03:30	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		06/10/22 03:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/22 03:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-12 **Lab ID: 92608777009** Collected: 06/07/22 10:03 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 13:38	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	06/10/22 09:37	06/10/22 13:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 19:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 19:29	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 19:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 19:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 19:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 19:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 19:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 19:29	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 19:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 19:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 19:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 19:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 19:29	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 19:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 19:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 19:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 19:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/10/22 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/10/22 19:29	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/10/22 19:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-13R **Lab ID: 92608777010** Collected: 06/07/22 09:38 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 13:49	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	98	%	60-140	1	06/10/22 09:37	06/10/22 13:49	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 03:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 03:48	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 03:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 03:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 03:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 03:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 03:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 03:48	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 03:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 03:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 03:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 03:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 03:48	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 03:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 03:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 03:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 03:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/10/22 03:48	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		06/10/22 03:48	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		06/10/22 03:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-14R **Lab ID: 92608777011** Collected: 06/07/22 09:26 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 14:00	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	95	%	60-140	1	06/10/22 09:37	06/10/22 14:00	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 04:06	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 04:06	994-05-8	M1
Benzene	ND	ug/L	5.0	1		06/10/22 04:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 04:06	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 04:06	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 04:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 04:06	107-06-2	M1
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 04:06	108-20-3	M1
Ethanol	ND	ug/L	200	1		06/10/22 04:06	64-17-5	M1
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 04:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 04:06	637-92-3	M1
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 04:06	1634-04-4	M1
Naphthalene	ND	ug/L	5.0	1		06/10/22 04:06	91-20-3	M1
Toluene	ND	ug/L	5.0	1		06/10/22 04:06	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 04:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 04:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 04:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/10/22 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/10/22 04:06	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		06/10/22 04:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-15 **Lab ID: 92608777012** Collected: 06/07/22 11:28 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	**0.75**	ug/L	0.020	1	06/10/22 09:37	06/10/22 14:11	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	113	%	60-140	1	06/10/22 09:37	06/10/22 14:11	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	2000	20		06/10/22 21:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	20		06/10/22 21:20	994-05-8	
Benzene	ND	ug/L	100	20		06/10/22 21:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	20		06/10/22 21:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	20		06/10/22 21:20	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	20		06/10/22 21:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	20		06/10/22 21:20	107-06-2	
Diisopropyl ether	ND	ug/L	100	20		06/10/22 21:20	108-20-3	
Ethanol	ND	ug/L	4000	20		06/10/22 21:20	64-17-5	
Ethylbenzene	**1140**	ug/L	100	20		06/10/22 21:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	20		06/10/22 21:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	20		06/10/22 21:20	1634-04-4	
Naphthalene	**300**	ug/L	100	20		06/10/22 21:20	91-20-3	
Toluene	**3070**	ug/L	100	20		06/10/22 21:20	108-88-3	
Xylene (Total)	**6250**	ug/L	100	20		06/10/22 21:20	1330-20-7	
m&p-Xylene	**4310**	ug/L	200	20		06/10/22 21:20	179601-23-1	
o-Xylene	**1940**	ug/L	100	20		06/10/22 21:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	20		06/10/22 21:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	20		06/10/22 21:20	17060-07-0	
Toluene-d8 (S)	104	%	70-130	20		06/10/22 21:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-16 **Lab ID: 92608777013** Collected: 06/07/22 11:02 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 14:22	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	06/10/22 09:37	06/10/22 14:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/10/22 19:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/10/22 19:48	994-05-8	
Benzene	ND	ug/L	5.0	1		06/10/22 19:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/10/22 19:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/10/22 19:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/10/22 19:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/22 19:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/10/22 19:48	108-20-3	
Ethanol	ND	ug/L	200	1		06/10/22 19:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/10/22 19:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/10/22 19:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/10/22 19:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/10/22 19:48	91-20-3	
Toluene	ND	ug/L	5.0	1		06/10/22 19:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/10/22 19:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/10/22 19:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/10/22 19:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		06/10/22 19:48	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/10/22 19:48	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/10/22 19:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-17 **Lab ID: 92608777014** Collected: 06/07/22 10:38 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 14:32	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	101	%	60-140	1	06/10/22 09:37	06/10/22 14:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 22:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 22:53	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 22:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 22:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 22:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 22:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 22:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 22:53	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 22:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 22:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 22:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 22:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 22:53	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 22:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 22:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 22:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 22:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/09/22 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		06/09/22 22:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/09/22 22:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-18 **Lab ID: 92608777015** Collected: 06/07/22 10:31 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 14:43	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	98	%	60-140	1	06/10/22 09:37	06/10/22 14:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 23:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 23:12	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 23:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 23:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 23:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 23:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 23:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 23:12	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 23:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 23:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 23:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 23:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 23:12	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 23:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 23:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 23:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 23:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/09/22 23:12	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/09/22 23:12	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/09/22 23:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-19 **Lab ID: 92608777016** Collected: 06/07/22 09:13 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 14:54	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	107	%	60-140	1	06/10/22 09:37	06/10/22 14:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 21:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 21:21	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 21:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 21:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 21:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 21:21	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 21:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 21:21	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 21:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 21:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 21:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 21:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 21:21	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 21:21	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 21:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 21:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 21:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/09/22 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130	1		06/09/22 21:21	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/09/22 21:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-21 **Lab ID: 92608777017** Collected: 06/07/22 11:09 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 15:05	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	100	%	60-140	1	06/10/22 09:37	06/10/22 15:05	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 21:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 21:40	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 21:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 21:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 21:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 21:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 21:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 21:40	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 21:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 21:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 21:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 21:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 21:40	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 21:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 21:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 21:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 21:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/09/22 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		06/09/22 21:40	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		06/09/22 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-22 **Lab ID: 92608777018** Collected: 06/07/22 10:50 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 15:15	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	104	%	60-140	1	06/10/22 09:37	06/10/22 15:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 21:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 21:58	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 21:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 21:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 21:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 21:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 21:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 21:58	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 21:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 21:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 21:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 21:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 21:58	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 21:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 21:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 21:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 21:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		06/09/22 21:58	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130	1		06/09/22 21:58	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/09/22 21:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-23 **Lab ID: 92608777019** Collected: 06/07/22 10:09 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 15:37	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	105	%	60-140	1	06/10/22 09:37	06/10/22 15:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 22:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 22:17	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 22:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 22:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 22:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 22:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 22:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 22:17	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 22:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 22:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 22:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 22:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 22:17	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 22:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 22:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 22:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 22:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/09/22 22:17	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130	1		06/09/22 22:17	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/09/22 22:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-24 **Lab ID: 92608777020** Collected: 06/07/22 10:33 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	06/10/22 09:37	06/10/22 16:09	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	95	%	60-140	1	06/10/22 09:37	06/10/22 16:09	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/14/22 10:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/14/22 10:53	994-05-8	
Benzene	ND	ug/L	5.0	1		06/14/22 10:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/14/22 10:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/14/22 10:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/14/22 10:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/14/22 10:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/14/22 10:53	108-20-3	
Ethanol	ND	ug/L	200	1		06/14/22 10:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/14/22 10:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/14/22 10:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/14/22 10:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/14/22 10:53	91-20-3	
Toluene	ND	ug/L	5.0	1		06/14/22 10:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/14/22 10:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/14/22 10:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/14/22 10:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/14/22 10:53	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/14/22 10:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/14/22 10:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: MW-25 **Lab ID: 92608777021** Collected: 06/07/22 09:15 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 16:20	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	94	%	60-140	1	06/10/22 09:37	06/10/22 16:20	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 22:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 22:35	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 22:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 22:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 22:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 22:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 22:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 22:35	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 22:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 22:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 22:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 22:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 22:35	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 22:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 22:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 22:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 22:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/09/22 22:35	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		06/09/22 22:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/09/22 22:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: VMW-1 **Lab ID: 92608777022** Collected: 06/07/22 15:26 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 16:31	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	93	%	60-140	1	06/10/22 09:37	06/10/22 16:31	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/14/22 11:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/14/22 11:12	994-05-8	
Benzene	**12.6**	ug/L	5.0	1		06/14/22 11:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/14/22 11:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/14/22 11:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/14/22 11:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/14/22 11:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/14/22 11:12	108-20-3	
Ethanol	ND	ug/L	200	1		06/14/22 11:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/14/22 11:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/14/22 11:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/14/22 11:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/14/22 11:12	91-20-3	
Toluene	**24.9**	ug/L	5.0	1		06/14/22 11:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/14/22 11:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/14/22 11:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/14/22 11:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/14/22 11:12	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		06/14/22 11:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		06/14/22 11:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: RW-1 **Lab ID: 92608777023** Collected: 06/07/22 11:16 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 16:41	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	107	%	60-140	1	06/10/22 09:37	06/10/22 16:41	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	2500	25		06/15/22 13:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	25		06/15/22 13:51	994-05-8	
Benzene	ND	ug/L	125	25		06/15/22 13:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	25		06/15/22 13:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	25		06/15/22 13:51	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	25		06/15/22 13:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	25		06/15/22 13:51	107-06-2	
Diisopropyl ether	ND	ug/L	125	25		06/15/22 13:51	108-20-3	
Ethanol	ND	ug/L	5000	25		06/15/22 13:51	64-17-5	
Ethylbenzene	**1750**	ug/L	125	25		06/15/22 13:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	25		06/15/22 13:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	25		06/15/22 13:51	1634-04-4	
Naphthalene	**417**	ug/L	125	25		06/15/22 13:51	91-20-3	
Toluene	**3930**	ug/L	125	25		06/15/22 13:51	108-88-3	
Xylene (Total)	**10000**	ug/L	125	25		06/15/22 13:51	1330-20-7	
m&p-Xylene	**6910**	ug/L	250	25		06/15/22 13:51	179601-23-1	
o-Xylene	**3130**	ug/L	125	25		06/15/22 13:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	25		06/15/22 13:51	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	25		06/15/22 13:51	17060-07-0	
Toluene-d8 (S)	108	%	70-130	25		06/15/22 13:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: RW-2 **Lab ID: 92608777024** Collected: 06/07/22 12:13 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	**1090**	ug/L	48.8	2500	06/10/22 09:37	06/13/22 10:56	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	0	%	60-140	2500	06/10/22 09:37	06/13/22 10:56	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	25000	250		06/14/22 05:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	250		06/14/22 05:53	994-05-8	
Benzene	**24100**	ug/L	1250	250		06/14/22 05:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	250		06/14/22 05:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	250		06/14/22 05:53	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	250		06/14/22 05:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	250		06/14/22 05:53	107-06-2	
Diisopropyl ether	ND	ug/L	1250	250		06/14/22 05:53	108-20-3	
Ethanol	ND	ug/L	50000	250		06/14/22 05:53	64-17-5	
Ethylbenzene	**3350**	ug/L	1250	250		06/14/22 05:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	250		06/14/22 05:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	250		06/14/22 05:53	1634-04-4	
Naphthalene	ND	ug/L	1250	250		06/14/22 05:53	91-20-3	
Toluene	**42800**	ug/L	1250	250		06/14/22 05:53	108-88-3	
Xylene (Total)	**17600**	ug/L	1250	250		06/14/22 05:53	1330-20-7	
m&p-Xylene	**11800**	ug/L	2500	250		06/14/22 05:53	179601-23-1	
o-Xylene	**5780**	ug/L	1250	250		06/14/22 05:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	250		06/14/22 05:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	250		06/14/22 05:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130	250		06/14/22 05:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: DUP-1 **Lab ID: 92608777025** Collected: 06/07/22 00:00 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 17:03	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	06/10/22 09:37	06/10/22 17:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	2500	25		06/14/22 01:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	25		06/14/22 01:53	994-05-8	
Benzene	ND	ug/L	125	25		06/14/22 01:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	25		06/14/22 01:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	25		06/14/22 01:53	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	25		06/14/22 01:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	25		06/14/22 01:53	107-06-2	
Diisopropyl ether	ND	ug/L	125	25		06/14/22 01:53	108-20-3	
Ethanol	ND	ug/L	5000	25		06/14/22 01:53	64-17-5	
Ethylbenzene	**961**	ug/L	125	25		06/14/22 01:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	25		06/14/22 01:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	25		06/14/22 01:53	1634-04-4	
Naphthalene	**289**	ug/L	125	25		06/14/22 01:53	91-20-3	
Toluene	**2770**	ug/L	125	25		06/14/22 01:53	108-88-3	
Xylene (Total)	**5900**	ug/L	125	25		06/14/22 01:53	1330-20-7	
m&p-Xylene	**3920**	ug/L	250	25		06/14/22 01:53	179601-23-1	
o-Xylene	**1980**	ug/L	125	25		06/14/22 01:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	25		06/14/22 01:53	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	25		06/14/22 01:53	17060-07-0	
Toluene-d8 (S)	104	%	70-130	25		06/14/22 01:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: DUP-2 **Lab ID: 92608777026** Collected: 06/07/22 00:00 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	**1.0**	ug/L	0.040	2	06/10/22 09:37	06/13/22 11:07	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	118	%	60-140	2	06/10/22 09:37	06/13/22 11:07	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	2500	25		06/15/22 14:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	25		06/15/22 14:09	994-05-8	
Benzene	ND	ug/L	125	25		06/15/22 14:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	25		06/15/22 14:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	25		06/15/22 14:09	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	25		06/15/22 14:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	25		06/15/22 14:09	107-06-2	
Diisopropyl ether	ND	ug/L	125	25		06/15/22 14:09	108-20-3	
Ethanol	ND	ug/L	5000	25		06/15/22 14:09	64-17-5	
Ethylbenzene	**1170**	ug/L	125	25		06/15/22 14:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	25		06/15/22 14:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	25		06/15/22 14:09	1634-04-4	
Naphthalene	**325**	ug/L	125	25		06/15/22 14:09	91-20-3	
Toluene	**3760**	ug/L	125	25		06/15/22 14:09	108-88-3	
Xylene (Total)	**6960**	ug/L	125	25		06/15/22 14:09	1330-20-7	
m&p-Xylene	**4710**	ug/L	250	25		06/15/22 14:09	179601-23-1	
o-Xylene	**2250**	ug/L	125	25		06/15/22 14:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	25		06/15/22 14:09	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	25		06/15/22 14:09	17060-07-0	
Toluene-d8 (S)	107	%	70-130	25		06/15/22 14:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: FIELD BLANK **Lab ID: 92608777027** Collected: 06/07/22 10:39 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	06/10/22 09:37	06/10/22 17:24	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	85	%	60-140	1	06/10/22 09:37	06/10/22 17:24	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 20:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 20:45	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 20:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 20:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 20:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 20:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 20:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 20:45	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 20:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 20:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 20:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 20:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 20:45	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 20:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 20:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 20:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 20:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/09/22 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		06/09/22 20:45	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/09/22 20:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Sample: TB **Lab ID: 92608777028** Collected: 06/07/22 08:00 Received: 06/08/22 07:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		06/09/22 21:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		06/09/22 21:03	994-05-8	
Benzene	ND	ug/L	5.0	1		06/09/22 21:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		06/09/22 21:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		06/09/22 21:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		06/09/22 21:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/22 21:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		06/09/22 21:03	108-20-3	
Ethanol	ND	ug/L	200	1		06/09/22 21:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		06/09/22 21:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		06/09/22 21:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/09/22 21:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/09/22 21:03	91-20-3	
Toluene	ND	ug/L	5.0	1		06/09/22 21:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		06/09/22 21:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		06/09/22 21:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/09/22 21:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/09/22 21:03	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		06/09/22 21:03	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/09/22 21:03	2037-26-5	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 703462
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777005, 92608777006, 92608777007, 92608777008, 92608777010, 92608777011

METHOD BLANK: 3671099 Matrix: Water
Associated Lab Samples: 92608777005, 92608777006, 92608777007, 92608777008, 92608777010, 92608777011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	06/09/22 20:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	06/09/22 20:08	
Benzene	ug/L	ND	5.0	06/09/22 20:08	
Diisopropyl ether	ug/L	ND	5.0	06/09/22 20:08	
Ethanol	ug/L	ND	200	06/09/22 20:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	06/09/22 20:08	
Ethylbenzene	ug/L	ND	5.0	06/09/22 20:08	
m&p-Xylene	ug/L	ND	10.0	06/09/22 20:08	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/09/22 20:08	
Naphthalene	ug/L	ND	5.0	06/09/22 20:08	
o-Xylene	ug/L	ND	5.0	06/09/22 20:08	
tert-Amyl Alcohol	ug/L	ND	100	06/09/22 20:08	
tert-Amylmethyl ether	ug/L	ND	10.0	06/09/22 20:08	
tert-Butyl Alcohol	ug/L	ND	100	06/09/22 20:08	
tert-Butyl Formate	ug/L	ND	50.0	06/09/22 20:08	
Toluene	ug/L	ND	5.0	06/09/22 20:08	
Xylene (Total)	ug/L	ND	5.0	06/09/22 20:08	
1,2-Dichloroethane-d4 (S)	%	113	70-130	06/09/22 20:08	
4-Bromofluorobenzene (S)	%	99	70-130	06/09/22 20:08	
Toluene-d8 (S)	%	101	70-130	06/09/22 20:08	

LABORATORY CONTROL SAMPLE: 3671100

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	1090	109	70-130	
Benzene	ug/L	50	48.3	97	70-130	
Diisopropyl ether	ug/L	50	50.8	102	70-130	
Ethanol	ug/L	2000	2400	120	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.0	99	70-130	
Ethylbenzene	ug/L	50	51.5	103	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	50.5	101	70-130	
Naphthalene	ug/L	50	52.7	105	70-130	
o-Xylene	ug/L	50	51.1	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1130	113	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	539	108	70-130	
tert-Butyl Formate	ug/L	400	416	104	70-130	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

LABORATORY CONTROL SAMPLE: 3671100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.5	93	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671101 3671102

Parameter	Units	92608777011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	35.3	32.7	176	164	70-137	7	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	687	637	172	159	39-157	8	M1
Benzene	ug/L	ND	20	20	27.8	27.8	139	139	70-151	0	
Diisopropyl ether	ug/L	ND	20	20	34.0	32.8	170	164	63-144	4	M1
Ethanol	ug/L	ND	800	800	1410	1340	177	168	39-176	5	M1
Ethyl-tert-butyl ether	ug/L	ND	40	40	67.8	64.4	169	161	66-137	5	M1
Ethylbenzene	ug/L	ND	20	20	26.3	28.2	131	141	66-153	7	
m&p-Xylene	ug/L	ND	40	40	53.7	57.0	134	143	69-152	6	
Methyl-tert-butyl ether	ug/L	ND	20	20	35.2	33.2	176	166	54-156	6	M1
Naphthalene	ug/L	ND	20	20	33.4	32.8	167	164	61-148	2	M1
o-Xylene	ug/L	ND	20	20	28.2	29.1	141	145	70-148	3	
tert-Amyl Alcohol	ug/L	ND	400	400	732	653	183	163	54-153	11	M1
tert-Amylmethyl ether	ug/L	ND	40	40	69.4	65.2	173	163	69-139	6	M1
tert-Butyl Alcohol	ug/L	ND	200	200	380	373	190	187	43-188	2	M1
tert-Butyl Formate	ug/L	ND	160	160	220	175	138	110	10-170	23	
Toluene	ug/L	ND	20	20	27.4	28.1	137	140	59-148	2	
Xylene (Total)	ug/L	ND	60	60	81.9	86.1	137	144	63-158	5	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						101	100	70-130		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 703463
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777014, 92608777015, 92608777016, 92608777017, 92608777018, 92608777019, 92608777021, 92608777027, 92608777028

METHOD BLANK: 3671103
Matrix: Water
Associated Lab Samples: 92608777014, 92608777015, 92608777016, 92608777017, 92608777018, 92608777019, 92608777021, 92608777027, 92608777028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	06/09/22 20:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	06/09/22 20:26	
Benzene	ug/L	ND	5.0	06/09/22 20:26	
Diisopropyl ether	ug/L	ND	5.0	06/09/22 20:26	
Ethanol	ug/L	ND	200	06/09/22 20:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	06/09/22 20:26	
Ethylbenzene	ug/L	ND	5.0	06/09/22 20:26	
m&p-Xylene	ug/L	ND	10.0	06/09/22 20:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/09/22 20:26	
Naphthalene	ug/L	ND	5.0	06/09/22 20:26	
o-Xylene	ug/L	ND	5.0	06/09/22 20:26	
tert-Amyl Alcohol	ug/L	ND	100	06/09/22 20:26	
tert-Amylmethyl ether	ug/L	ND	10.0	06/09/22 20:26	
tert-Butyl Alcohol	ug/L	ND	100	06/09/22 20:26	
tert-Butyl Formate	ug/L	ND	50.0	06/09/22 20:26	
Toluene	ug/L	ND	5.0	06/09/22 20:26	
Xylene (Total)	ug/L	ND	5.0	06/09/22 20:26	
1,2-Dichloroethane-d4 (S)	%	113	70-130	06/09/22 20:26	
4-Bromofluorobenzene (S)	%	99	70-130	06/09/22 20:26	
Toluene-d8 (S)	%	101	70-130	06/09/22 20:26	

LABORATORY CONTROL SAMPLE: 3671104

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	1100	110	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Diisopropyl ether	ug/L	50	51.9	104	70-130	
Ethanol	ug/L	2000	2400	120	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.9	100	70-130	
Ethylbenzene	ug/L	50	51.3	103	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Naphthalene	ug/L	50	54.6	109	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1120	112	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

LABORATORY CONTROL SAMPLE: 3671104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	541	108	70-130	
tert-Butyl Formate	ug/L	400	417	104	70-130	
Toluene	ug/L	50	49.3	99	70-130	
Xylene (Total)	ug/L	150	155	104	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671105 3671106

Parameter	Units	92608777016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	22.0	23.0	110	115	70-137	4	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	409	447	102	112	39-157	9	
Benzene	ug/L	ND	20	20	20.8	20.9	104	104	70-151	1	
Diisopropyl ether	ug/L	ND	20	20	21.5	22.0	107	110	63-144	2	
Ethanol	ug/L	ND	800	800	1050	1080	131	135	39-176	3	
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.4	42.3	103	106	66-137	2	
Ethylbenzene	ug/L	ND	20	20	21.6	22.2	108	111	66-153	3	
m&p-Xylene	ug/L	ND	40	40	43.8	44.5	110	111	69-152	2	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.1	21.6	106	108	54-156	2	
Naphthalene	ug/L	ND	20	20	18.1	19.5	91	98	61-148	7	
o-Xylene	ug/L	ND	20	20	21.2	21.5	106	107	70-148	1	
tert-Amyl Alcohol	ug/L	ND	400	400	434	448	109	112	54-153	3	
tert-Amylmethyl ether	ug/L	ND	40	40	42.2	42.6	106	106	69-139	1	
tert-Butyl Alcohol	ug/L	ND	200	200	323	335	162	168	43-188	4	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		P5
Toluene	ug/L	ND	20	20	20.8	20.8	104	104	59-148	0	
Xylene (Total)	ug/L	ND	60	60	65.0	66.0	108	110	63-158	1	
1,2-Dichloroethane-d4 (S)	%						110	112	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 703708
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777001, 92608777002, 92608777003, 92608777004, 92608777009, 92608777012, 92608777013

METHOD BLANK: 3672236 Matrix: Water
Associated Lab Samples: 92608777001, 92608777002, 92608777003, 92608777004, 92608777009, 92608777012, 92608777013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	06/10/22 12:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	06/10/22 12:26	
Benzene	ug/L	ND	5.0	06/10/22 12:26	
Diisopropyl ether	ug/L	ND	5.0	06/10/22 12:26	
Ethanol	ug/L	ND	200	06/10/22 12:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	06/10/22 12:26	
Ethylbenzene	ug/L	ND	5.0	06/10/22 12:26	
m&p-Xylene	ug/L	ND	10.0	06/10/22 12:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/10/22 12:26	
Naphthalene	ug/L	ND	5.0	06/10/22 12:26	
o-Xylene	ug/L	ND	5.0	06/10/22 12:26	
tert-Amyl Alcohol	ug/L	ND	100	06/10/22 12:26	
tert-Amylmethyl ether	ug/L	ND	10.0	06/10/22 12:26	
tert-Butyl Alcohol	ug/L	ND	100	06/10/22 12:26	
tert-Butyl Formate	ug/L	ND	50.0	06/10/22 12:26	
Toluene	ug/L	ND	5.0	06/10/22 12:26	
Xylene (Total)	ug/L	ND	5.0	06/10/22 12:26	
1,2-Dichloroethane-d4 (S)	%	104	70-130	06/10/22 12:26	
4-Bromofluorobenzene (S)	%	106	70-130	06/10/22 12:26	
Toluene-d8 (S)	%	102	70-130	06/10/22 12:26	

LABORATORY CONTROL SAMPLE: 3672237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.8	92	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	46.3	93	70-130	
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethanol	ug/L	2000	2230	112	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.0	96	70-130	
Ethylbenzene	ug/L	50	48.7	97	70-130	
m&p-Xylene	ug/L	100	96.8	97	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Naphthalene	ug/L	50	47.8	96	70-130	
o-Xylene	ug/L	50	46.9	94	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	
tert-Amylmethyl ether	ug/L	100	94.6	95	70-130	
tert-Butyl Alcohol	ug/L	500	486	97	70-130	
tert-Butyl Formate	ug/L	400	386	96	70-130	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

LABORATORY CONTROL SAMPLE: 3672237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	44.2	88	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 3672239

Parameter	Units	92608777009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.6	103	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	480	120	39-157	
Benzene	ug/L	ND	20	20.9	101	70-151	
Diisopropyl ether	ug/L	ND	20	21.3	106	63-144	
Ethanol	ug/L	ND	800	1040	129	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.5	99	66-137	
Ethylbenzene	ug/L	ND	20	23.7	111	66-153	
m&p-Xylene	ug/L	ND	40	44.8	112	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	21.0	105	54-156	
Naphthalene	ug/L	ND	20	20.6	103	61-148	
o-Xylene	ug/L	ND	20	21.7	108	70-148	
tert-Amyl Alcohol	ug/L	ND	400	503	126	54-153	
tert-Amylmethyl ether	ug/L	ND	40	39.0	97	69-139	
tert-Butyl Alcohol	ug/L	ND	200	295	147	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	10	10-170	
Toluene	ug/L	ND	20	20.3	102	59-148	
Xylene (Total)	ug/L	ND	60	66.4	111	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 3672238

Parameter	Units	92608777004 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

SAMPLE DUPLICATE: 3672238

Parameter	Units	92608777004 Result	Dup Result	RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	114	107		
4-Bromofluorobenzene (S)	%	97	97		
Toluene-d8 (S)	%	98	100		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 704106
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777020, 92608777022

METHOD BLANK: 3674416 Matrix: Water
Associated Lab Samples: 92608777020, 92608777022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	06/14/22 07:49	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	06/14/22 07:49	
Benzene	ug/L	ND	5.0	06/14/22 07:49	
Diisopropyl ether	ug/L	ND	5.0	06/14/22 07:49	
Ethanol	ug/L	ND	200	06/14/22 07:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	06/14/22 07:49	
Ethylbenzene	ug/L	ND	5.0	06/14/22 07:49	
m&p-Xylene	ug/L	ND	10.0	06/14/22 07:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/14/22 07:49	
Naphthalene	ug/L	ND	5.0	06/14/22 07:49	
o-Xylene	ug/L	ND	5.0	06/14/22 07:49	
tert-Amyl Alcohol	ug/L	ND	100	06/14/22 07:49	
tert-Amylmethyl ether	ug/L	ND	10.0	06/14/22 07:49	
tert-Butyl Alcohol	ug/L	ND	100	06/14/22 07:49	
tert-Butyl Formate	ug/L	ND	50.0	06/14/22 07:49	
Toluene	ug/L	ND	5.0	06/14/22 07:49	
Xylene (Total)	ug/L	ND	5.0	06/14/22 07:49	
1,2-Dichloroethane-d4 (S)	%	106	70-130	06/14/22 07:49	
4-Bromofluorobenzene (S)	%	99	70-130	06/14/22 07:49	
Toluene-d8 (S)	%	99	70-130	06/14/22 07:49	

LABORATORY CONTROL SAMPLE: 3674417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.2	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	955	96	70-130	
Benzene	ug/L	50	47.5	95	70-130	
Diisopropyl ether	ug/L	50	47.7	95	70-130	
Ethanol	ug/L	2000	2110	106	70-130	
Ethyl-tert-butyl ether	ug/L	100	94.0	94	70-130	
Ethylbenzene	ug/L	50	49.7	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	70-130	
Naphthalene	ug/L	50	47.7	95	70-130	
o-Xylene	ug/L	50	48.8	98	70-130	
tert-Amyl Alcohol	ug/L	1000	986	99	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	457	91	70-130	
tert-Butyl Formate	ug/L	400	384	96	70-130	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

LABORATORY CONTROL SAMPLE: 3674417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.4	97	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674418 3674419

Parameter	Units	92609281021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	23.6	23.4	118	117	70-137	1	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	459	454	115	113	39-157	1	
Benzene	ug/L	ND	20	20	22.2	23.0	111	115	70-151	4	
Diisopropyl ether	ug/L	ND	20	20	22.1	22.2	110	111	63-144	1	
Ethanol	ug/L	ND	800	800	1140	1160	142	146	39-176	3	
Ethyl-tert-butyl ether	ug/L	ND	40	40	43.3	44.0	108	110	66-137	1	
Ethylbenzene	ug/L	ND	20	20	21.3	22.0	107	110	66-153	3	
m&p-Xylene	ug/L	ND	40	40	43.1	44.1	108	110	69-152	2	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.3	22.9	111	114	54-156	3	
Naphthalene	ug/L	ND	20	20	18.9	18.9	94	95	61-148	0	
o-Xylene	ug/L	ND	20	20	20.5	21.2	103	106	70-148	3	
tert-Amyl Alcohol	ug/L	ND	400	400	487	507	122	127	54-153	4	
tert-Amylmethyl ether	ug/L	ND	40	40	45.9	47.7	115	119	69-139	4	
tert-Butyl Alcohol	ug/L	ND	200	200	349	359	175	180	43-188	3	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		M1
Toluene	ug/L	ND	20	20	22.7	23.4	114	117	59-148	3	
Xylene (Total)	ug/L	ND	60	60	63.7	65.2	106	109	63-158	2	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130		
4-Bromofluorobenzene (S)	%						104	104	70-130		
Toluene-d8 (S)	%						99	100	70-130		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 704120
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92608777024, 92608777025

METHOD BLANK: 3674474 Matrix: Water

Associated Lab Samples: 92608777024, 92608777025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	06/14/22 01:34	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	06/14/22 01:34	
Benzene	ug/L	ND	5.0	06/14/22 01:34	
Diisopropyl ether	ug/L	ND	5.0	06/14/22 01:34	
Ethanol	ug/L	ND	200	06/14/22 01:34	
Ethyl-tert-butyl ether	ug/L	ND	10.0	06/14/22 01:34	
Ethylbenzene	ug/L	ND	5.0	06/14/22 01:34	
m&p-Xylene	ug/L	ND	10.0	06/14/22 01:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/14/22 01:34	
Naphthalene	ug/L	ND	5.0	06/14/22 01:34	
o-Xylene	ug/L	ND	5.0	06/14/22 01:34	
tert-Amyl Alcohol	ug/L	ND	100	06/14/22 01:34	
tert-Amylmethyl ether	ug/L	ND	10.0	06/14/22 01:34	
tert-Butyl Alcohol	ug/L	ND	100	06/14/22 01:34	
tert-Butyl Formate	ug/L	ND	50.0	06/14/22 01:34	
Toluene	ug/L	ND	5.0	06/14/22 01:34	
Xylene (Total)	ug/L	ND	5.0	06/14/22 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	06/14/22 01:34	
4-Bromofluorobenzene (S)	%	105	70-130	06/14/22 01:34	
Toluene-d8 (S)	%	104	70-130	06/14/22 01:34	

LABORATORY CONTROL SAMPLE: 3674475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	45.0	90	70-130	
Diisopropyl ether	ug/L	50	51.8	104	70-130	
Ethanol	ug/L	2000	2280	114	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.3	95	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	94.2	94	70-130	
Methyl-tert-butyl ether	ug/L	50	50.5	101	70-130	
Naphthalene	ug/L	50	47.7	95	70-130	
o-Xylene	ug/L	50	45.4	91	70-130	
tert-Amyl Alcohol	ug/L	1000	1130	113	70-130	
tert-Amylmethyl ether	ug/L	100	95.1	95	70-130	
tert-Butyl Alcohol	ug/L	500	503	101	70-130	
tert-Butyl Formate	ug/L	400	370	93	70-130	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

LABORATORY CONTROL SAMPLE: 3674475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	43.8	88	70-130	
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674476 3674477

Parameter	Units	92608980007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane	ug/L	ND	1000	1000	994	1000	99	100	70-137	1	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	30600	24400	153	122	39-157	22	
Benzene	ug/L	2290	1000	1000	2990	3120	70	83	70-151	4	
Diisopropyl ether	ug/L	ND	1000	1000	1130	1140	113	114	63-144	1	
Ethanol	ug/L	ND	40000	40000	55900	52100	140	130	39-176	7	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	2200	2090	110	105	66-137	5	
Ethylbenzene	ug/L	1360	1000	1000	2270	2270	91	91	66-153	0	
m&p-Xylene	ug/L	4560	2000	2000	5990	6020	71	73	69-152	1	
Methyl-tert-butyl ether	ug/L	ND	1000	1000	1080	1060	106	104	54-156	2	
Naphthalene	ug/L	488	1000	1000	1650	1530	116	104	61-148	7	
o-Xylene	ug/L	2480	1000	1000	3180	3200	70	72	70-148	1	
tert-Amyl Alcohol	ug/L	ND	20000	20000	33900	27900	169	140	54-153	19	M1
tert-Amylmethyl ether	ug/L	ND	2000	2000	2320	2220	116	111	69-139	4	
tert-Butyl Alcohol	ug/L	ND	10000	10000	13000	11400	130	114	43-188	13	
tert-Butyl Formate	ug/L	ND	8000	8000	8210	7830	103	98	10-170	5	
Toluene	ug/L	6200	1000	1000	5930	6190	-26	-1	59-148	4	M1
Xylene (Total)	ug/L	7050	3000	3000	9170	9230	71	73	63-158	1	
1,2-Dichloroethane-d4 (S)	%						94	98	70-130		
4-Bromofluorobenzene (S)	%						102	100	70-130		
Toluene-d8 (S)	%						100	98	70-130		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 704398
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777023, 92608777026

METHOD BLANK: 3675689 Matrix: Water
Associated Lab Samples: 92608777023, 92608777026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	06/15/22 12:24	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	06/15/22 12:24	
Benzene	ug/L	ND	5.0	06/15/22 12:24	
Diisopropyl ether	ug/L	ND	5.0	06/15/22 12:24	
Ethanol	ug/L	ND	200	06/15/22 12:24	
Ethyl-tert-butyl ether	ug/L	ND	10.0	06/15/22 12:24	
Ethylbenzene	ug/L	ND	5.0	06/15/22 12:24	
m&p-Xylene	ug/L	ND	10.0	06/15/22 12:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/15/22 12:24	
Naphthalene	ug/L	ND	5.0	06/15/22 12:24	
o-Xylene	ug/L	ND	5.0	06/15/22 12:24	
tert-Amyl Alcohol	ug/L	ND	100	06/15/22 12:24	
tert-Amylmethyl ether	ug/L	ND	10.0	06/15/22 12:24	
tert-Butyl Alcohol	ug/L	ND	100	06/15/22 12:24	
tert-Butyl Formate	ug/L	ND	50.0	06/15/22 12:24	
Toluene	ug/L	ND	5.0	06/15/22 12:24	
Xylene (Total)	ug/L	ND	5.0	06/15/22 12:24	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/15/22 12:24	
4-Bromofluorobenzene (S)	%	103	70-130	06/15/22 12:24	
Toluene-d8 (S)	%	103	70-130	06/15/22 12:24	

LABORATORY CONTROL SAMPLE: 3675690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.2	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	905	90	70-130	
Benzene	ug/L	50	46.4	93	70-130	
Diisopropyl ether	ug/L	50	51.7	103	70-130	
Ethanol	ug/L	2000	2030	101	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.9	98	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	96.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Naphthalene	ug/L	50	48.4	97	70-130	
o-Xylene	ug/L	50	49.4	99	70-130	
tert-Amyl Alcohol	ug/L	1000	968	97	70-130	
tert-Amylmethyl ether	ug/L	100	94.3	94	70-130	
tert-Butyl Alcohol	ug/L	500	463	93	70-130	
tert-Butyl Formate	ug/L	400	359	90	70-130	

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

LABORATORY CONTROL SAMPLE: 3675690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.6	93	70-130	
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3675691 3675692

Parameter	Units	92608980022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane	ug/L	ND	800	800	898	880	112	110	70-137	2	
3,3-Dimethyl-1-Butanol	ug/L	ND	16000	16000	16300	16500	102	103	39-157	1	
Benzene	ug/L	3790	800	800	4450	4590	83	101	70-151	3	
Diisopropyl ether	ug/L	ND	800	800	971	958	111	110	63-144	1	
Ethanol	ug/L	ND	32000	32000	36400	36100	114	113	39-176	1	
Ethyl-tert-butyl ether	ug/L	ND	1600	1600	1620	1640	102	103	66-137	1	
Ethylbenzene	ug/L	272	800	800	1040	1110	96	105	66-153	6	
m&p-Xylene	ug/L	1560	1600	1600	3050	3210	93	103	69-152	5	
Methyl-tert-butyl ether	ug/L	3580	800	800	4730	4770	145	149	54-156	1	
Naphthalene	ug/L	ND	800	800	818	824	88	88	61-148	1	
o-Xylene	ug/L	947	800	800	1670	1770	90	103	70-148	6	
tert-Amyl Alcohol	ug/L	ND	16000	16000	19300	20700	103	111	54-153	7	
tert-Amylmethyl ether	ug/L	ND	1600	1600	1620	1650	101	103	69-139	2	
tert-Butyl Alcohol	ug/L	ND	8000	8000	10000	9730	100	96	43-188	3	
tert-Butyl Formate	ug/L	ND	6400	6400	3740	3740	58	58	10-170	0	
Toluene	ug/L	5000	800	800	5330	5660	41	82	59-148	6	M1
Xylene (Total)	ug/L	2510	2400	2400	4720	4980	92	103	63-158	5	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						102	101	70-130		
Toluene-d8 (S)	%						101	102	70-130		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 703552
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777001, 92608777002, 92608777003, 92608777004, 92608777005, 92608777006, 92608777007, 92608777008, 92608777009, 92608777010, 92608777011, 92608777012, 92608777013, 92608777014, 92608777015, 92608777016, 92608777017

METHOD BLANK: 3671567 Matrix: Water
Associated Lab Samples: 92608777001, 92608777002, 92608777003, 92608777004, 92608777005, 92608777006, 92608777007, 92608777008, 92608777009, 92608777010, 92608777011, 92608777012, 92608777013, 92608777014, 92608777015, 92608777016, 92608777017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	06/10/22 10:35	
1-Chloro-2-bromopropane (S)	%	123	60-140	06/10/22 10:35	

LABORATORY CONTROL SAMPLE & LCSD: 3671568 3671569

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	0.28	0.27	114	108	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				122	110	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671571 3671572

Parameter	Units	92608777002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.30	0.30	115	116	60-140	0	
1-Chloro-2-bromopropane (S)	%						118	118	60-140		

SAMPLE DUPLICATE: 3671570

Parameter	Units	92608777001 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.11	0.12	7	
1-Chloro-2-bromopropane (S)	%	96	107		

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QUALITY CONTROL DATA

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

QC Batch: 703553
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92608777018, 92608777019, 92608777020, 92608777021, 92608777022, 92608777023, 92608777024, 92608777025, 92608777026, 92608777027

METHOD BLANK: 3671573 Matrix: Water
Associated Lab Samples: 92608777018, 92608777019, 92608777020, 92608777021, 92608777022, 92608777023, 92608777024, 92608777025, 92608777026, 92608777027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	06/10/22 14:32	
1-Chloro-2-bromopropane (S)	%	106	60-140	06/10/22 14:32	

LABORATORY CONTROL SAMPLE & LCSD: 3671574 3671575

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	0.25	0.28	102	115	60-140	11	20	
1-Chloro-2-bromopropane (S)	%				103	113	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671577 3671578

Parameter	Units	92608777019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.25	104	102	60-140	2	
1-Chloro-2-bromopropane (S)	%						100	99	60-140		

SAMPLE DUPLICATE: 3671576

Parameter	Units	92608777018 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	104	109		

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QUALIFIERS

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92608777001	MW-1	EPA 8011	703552	EPA 8011	703631
92608777002	MW-3	EPA 8011	703552	EPA 8011	703631
92608777003	MW-5	EPA 8011	703552	EPA 8011	703631
92608777004	MW-6	EPA 8011	703552	EPA 8011	703631
92608777005	MW-8	EPA 8011	703552	EPA 8011	703631
92608777006	MW-9R	EPA 8011	703552	EPA 8011	703631
92608777007	MW-10R	EPA 8011	703552	EPA 8011	703631
92608777008	MW-11	EPA 8011	703552	EPA 8011	703631
92608777009	MW-12	EPA 8011	703552	EPA 8011	703631
92608777010	MW-13R	EPA 8011	703552	EPA 8011	703631
92608777011	MW-14R	EPA 8011	703552	EPA 8011	703631
92608777012	MW-15	EPA 8011	703552	EPA 8011	703631
92608777013	MW-16	EPA 8011	703552	EPA 8011	703631
92608777014	MW-17	EPA 8011	703552	EPA 8011	703631
92608777015	MW-18	EPA 8011	703552	EPA 8011	703631
92608777016	MW-19	EPA 8011	703552	EPA 8011	703631
92608777017	MW-21	EPA 8011	703552	EPA 8011	703631
92608777018	MW-22	EPA 8011	703553	EPA 8011	703633
92608777019	MW-23	EPA 8011	703553	EPA 8011	703633
92608777020	MW-24	EPA 8011	703553	EPA 8011	703633
92608777021	MW-25	EPA 8011	703553	EPA 8011	703633
92608777022	VMW-1	EPA 8011	703553	EPA 8011	703633
92608777023	RW-1	EPA 8011	703553	EPA 8011	703633
92608777024	RW-2	EPA 8011	703553	EPA 8011	703633
92608777025	DUP-1	EPA 8011	703553	EPA 8011	703633
92608777026	DUP-2	EPA 8011	703553	EPA 8011	703633
92608777027	FIELD BLANK	EPA 8011	703553	EPA 8011	703633
92608777001	MW-1	EPA 8260D	703708		
92608777002	MW-3	EPA 8260D	703708		
92608777003	MW-5	EPA 8260D	703708		
92608777004	MW-6	EPA 8260D	703708		
92608777005	MW-8	EPA 8260D	703462		
92608777006	MW-9R	EPA 8260D	703462		
92608777007	MW-10R	EPA 8260D	703462		
92608777008	MW-11	EPA 8260D	703462		
92608777009	MW-12	EPA 8260D	703708		
92608777010	MW-13R	EPA 8260D	703462		
92608777011	MW-14R	EPA 8260D	703462		
92608777012	MW-15	EPA 8260D	703708		
92608777013	MW-16	EPA 8260D	703708		
92608777014	MW-17	EPA 8260D	703463		
92608777015	MW-18	EPA 8260D	703463		
92608777016	MW-19	EPA 8260D	703463		
92608777017	MW-21	EPA 8260D	703463		
92608777018	MW-22	EPA 8260D	703463		

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8562/64795 RHODES SERVICE STAT
Pace Project No.: 92608777

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92608777019	MW-23	EPA 8260D	703463		
92608777020	MW-24	EPA 8260D	704106		
92608777021	MW-25	EPA 8260D	703463		
92608777022	VMW-1	EPA 8260D	704106		
92608777023	RW-1	EPA 8260D	704398		
92608777024	RW-2	EPA 8260D	704120		
92608777025	DUP-1	EPA 8260D	704120		
92608777026	DUP-2	EPA 8260D	704398		
92608777027	FIELD BLANK	EPA 8260D	703463		
92608777028	TB	EPA 8260D	703463		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB US... WO#: 92608777 ... Number or

Contai... 92608777

Company: SCDHEC	Billing Information:
Address: 2600 Bull St.	
Report To: R Dunn	Email To: Dunnra@dhec.sc.gov
Copy To:	Site Collection Info/Address: 410 Spartanburg Hwy
Customer Project Name/Number: Rhodes Service Station	State: SC County/City: Wellford Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email:	Site/Facility ID #: 8562 Pon: 64795 [redacted] Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matthew Funderburk	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): [signature]	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)

** 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 ____

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEXNMOXY 5021, DCA, EtOH 8260 OD	EDB Soil	Lab Profile/Line:
MW-1	GW	G	6/7/22	1136				6	X	X	Strong odor 001
MW-3	↓	G	↓	1221				↓	↓	↓	↓ 002
MW-4	—	—	—	—	—	—	—	—	—	—	FPP-DLS
MW-5	GW	G	6/7/22	1208				6	X	X	Strong odor 003
MW-6	↓	↓	↓	1046				↓	↓	↓	no odor 004
MW-8	↓	↓	↓	1005				↓	↓	↓	↓ 005
MW-9R	↓	↓	↓	0930				↓	↓	↓	↓ 006
MW-10R	↓	↓	↓	0933				↓	↓	↓	↓ 007
MW-11	↓	↓	↓	0949				↓	↓	↓	↓ 008
MW-12	↓	↓	↓	1003				↓	↓	↓	↓ 009

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y (N) NA
Custody Signatures Present	(Y) N NA
Collector Signature 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: 92608777

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2517828

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92T062
Cooler 1 Temp Upon Receipt: 0.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	6/8/22 745	[signature] / Pace	6/8/22 0745
[signature] / Pace	6/8/22 1305	DP PACE HVL	6/8/22 1305

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: ____ of: ____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC	Billing Information:
Address: 2600 Bull St, Columbia SC	
Report To: R. Dunn	Email To: dunnra@dhec.sc.gov
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Rhodes Service Station	State: SC/Wellfield County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [✓]ET
Phone: Email:	Site/Facility ID #: UST 8562 — Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Shawn Spratt	Purchase Order #: 64795 Quote #: — DW PWS ID #: DW Location Code:
Collected By (signature):	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) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Container Preservative Type **	Analyses: BTEX/MN,1,2-DCA, OXYS 8260D	Analyses: EDB 8011	Lab Profile/Line:
									3 3			
MW-13R	GW	G	6/7/22	9:38				6		X	X	92602777 No Odor 010
MW-14												
MW-14R	GW	G	6/7/22	9:26				6		X	X	No Odor 011
MW-15				11:28								Strong odor 012
MW-16				11:02								No odor 013
MW-17				10:38								No Odor 014
MW-18				10:31								No Odor 015
MW-19				9:13				6		X	X	No odor 016
MW-20												
MW-21	GW	G	6/7/22	11:09				6		X	X	No Odor 017

** 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 _____

Lab Project Manager:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature 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: BB

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2517829

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: T210648
Cooler 1 Temp Upon Receipt: 0.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	6/8/22 745	Pace	6/7/22 0745
	6/8/22 1305	DP PACE HVL	6/8/22 1305

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: 2600 Bull St

Report To: R Dunn

Email To: Dunnr@dhec.sc.gov

Copy To:

Site Collection Info/Address: 1410 Spartanburg Hwy

Customer Project Name/Number: Rhodes Service Station

State: SC County/City: Wolfford Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:

Site/Facility ID #: 8562 64795

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Matthew F

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Matthew F

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)

Container Preservative Type **: 3 3

** 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 _____

Analyses: ATEX NMtoxy 8+1, 2+1x Acetth 8260D; EDB Soil

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N	NA
Custody Signatures Present	Y N	NA
Collector Signature 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: 92608777

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	ATEX NMtoxy 8+1, 2+1x Acetth 8260D	EDB Soil	Lab Sample # / Comments
MW-22	GW	G	6/7/22	1050				G	X	X	No odor 018
MW-23	↓	↓	↓	1009				↓	↓	↓	019
MW-24	↓	↓	↓	1033				↓	↓	↓	020
MW-25	↓	↓	↓	0919				↓	↓	↓	021
VMW-1	↓	↓	↓	1526				↓	↓	↓	022
VMW-2											DNS
RW-1	GW	G	6/7/22	1116				G	X	X	Strong odor 023
RW-2	↓	↓	↓	1213				↓	↓	↓	024
DUP-1	↓	↓	↓	—				↓	↓	↓	Dup 025
DUP-2	↓	↓	↓	—				↓	↓	↓	Dup 026

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: BB

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2518503

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92106F
Cooler 1 Temp Upon Receipt: 0.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	6/8/22 745	[signature] / Pace	6/8/22 0745
[signature] / Pace	6/8/22 1305	DP PACE HVL	6/8/22 1305

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

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CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Address: 2600 Bull Street

Report To: R. Dunn

Copy To:

Customer Project Name/Number: Rhodes Service station

Billing Information:

Email To: DunnR1@dhec.sc.gov

Site Collection Info/Address: 410 Spartanburg Hwy

State: SC / County/City: Wellford

Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:
Email:

Site/Facility ID #: 8662 64795

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Chris Hansen

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [X] 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)

Container Preservative Type **: 3 3

** 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

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX NM1, 2DCA oxys 8260D	EDB 8011	Lab Profile/Line:
Field Blank	Cw	G	6/7/22	10:39				6	X	X	FB 027
Trip Blank	Cw	G	6/7/22	8:00				2	X		TB 028

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature 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: 92638777

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: BB

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2517840

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 921064
Cooler 1 Temp Upon Receipt: 0.6 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	6/8/22 745	[signature] / Pace	6/8/22 0745
[signature] / Pace	6/8/22 1305	DP PACE HVL	6/8/22 1305

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

*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, LL Hg

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	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) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mLAmber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG8A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 ml VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9R-40 mL VOA H2SO4 (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)		BP8R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-40 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9B-40 mL Amber Unpreserved vials (N/A)
1																6												
2																5												
3																6												
4																												
5																												
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*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, U Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	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) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar-Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mLAmber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG8A-250 mL Amber NH4Cl (N/A)(Cl-)	DG8H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG0V-40 mL VOA H3PO4 (N/A)	DG8S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	GP5T-125 mL Sterile Plastic (N/A – lab)	SP5T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-40 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6												
2																												
3																												
4																												
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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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*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), BOC, LL Hg

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	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) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar-Unpreserved	AG4U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA NaTSO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3-vials per kit)-VOA/Glass kit (N/A)	BP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP8R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-40 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 6/9/22	**Evaluated by:** DP
Client: SCDHEC	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

	Collection date/time missing or incorrect		Analyses or analytes: missing or clarification needed		Samples listed on COC do not match samples received (missing, additional, etc.)
	Sample IDs on COC do not match sample labels		Required trip blanks were not received		Required signatures are missing

Comments/Details/Other Issues not listed above:

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
	Samples: Not field filtered	✓	Containers: Broken or compromised		Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers		Vials received with improper headspace
	Samples: contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details:

SAMPLE VIAL MW-8 IS BROKEN

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

APPENDIX B:

TAX MAP

Roads Highway

US Highway

Parcel

County Line

Rhodes Service Station

0 0.01 0.02 mi

Printed: 6/16/2022

SPARTANBURG COUNTY SOUTH CAROLINA

Spartanburg County makes no claim, explicit or implied, as to the accuracy of the information on this map. Any assumptions made from the use of information obtained from this map are done at the user's own risk.

qPublic.net™ Spartanburg County, SC

Summary

Parcel ID	5-15-08-016.03
Account #	86212
MillageGroup	5L0I - 5SWDUFI - SD5/STARTEX JACKSON WELLFORD DUNCAN WATER DIST/DUN
Land Size	1.19 AC
Utilities	,ALL PUBLIC
Fire District	DUF
Site Conditions	PAVED
Location Address	410 SPARTANBURG HWY S WELLFORD
Legal Description	S SIDE SPARTANBURG HWY SOUTH W OF ASTOR ST PB 101-746 DB 555-742 (Note: Not to be used on legal documents)
Neighborhood	C001
Property Usage	Non-Qualified Regular Commercial Improved (6RGC)

Owners

KAVYA2015 INC
410 SPARTANBURG HWY
WELLFORD SC 29385

Valuations

		2021	2020	2019	2018
	Market Land Value	$466,500	$466,500	$466,500	$186,664
+	Market Improvement Value	$349,100	$349,100	$349,100	$164,500
+	Market Misc Value	$14,400	$14,400	$14,400	$14,400
=	Total Market Value	**$830,000**	**$830,000**	**$830,000**	**$365,564**
	Taxable Land Value	$466,500	$466,500	$466,500	$186,664
+	Taxable Improvement Value	$349,100	$349,100	$349,100	$164,500
+	Taxable Misc Value	$14,400	$14,400	$14,400	$14,400
-	Ag Credit Value	$0	$0	$0	$0
=	Total Taxable Value	**$830,000**	**$830,000**	**$830,000**	***$365,564**
	Assessed Land Value	$27,990	$27,990	$27,990	$11,200
+	Assessed Improvement Value	$20,946	$20,946	$20,946	$9,870
+	Assessed Misc Value	$864	$864	$864	$864
=	Total Assessed Value	**$49,800**	**$49,800**	**$49,800**	**$21,934**

*This parcel is subject to the value cap

Fees

Assessment	Units	Amount
City of Wellford Public Works Fee	1	$75.00

Land

Land Use	Number of Units	Unit Type	Land Type	Frontage	Depth
6% COMM IMPV (6RGC)	51,836.00	Square Foot	SQ FT	0	0

Commercial Buildings

Style	Fast Food/Convenience Store / 89
Gross Sq Ft	7,640
Finished Sq Ft	2,800
Perimiter	616
Stories	1
Interior Walls	DRYWALL
Exterior Walls	BLOCK
Quality	C (C)
Roof Type	SINGLE PITCH
Roof Material	METAL
Exterior Wall1	BLOCK
Exterior Wall2	
Foundation	SLAB
Interior Finish	DRYWALL
Ground Floor Area	
Floor Cover	TILE
Full Bathrooms	0
Half Bathrooms	0
Heating Type	CENTRAL HEAT with 0% AIR COND
Year Built	1997
Year Remodeled	
Effective Year Built	1997
Condition	

Code	Description	Sketch Area	Finished Area	Perimeter
CH	Canopy Heavy	4,840	0	396
MN	Main Living	2,800	2,800	220
TOTAL		7,640	2,800	616

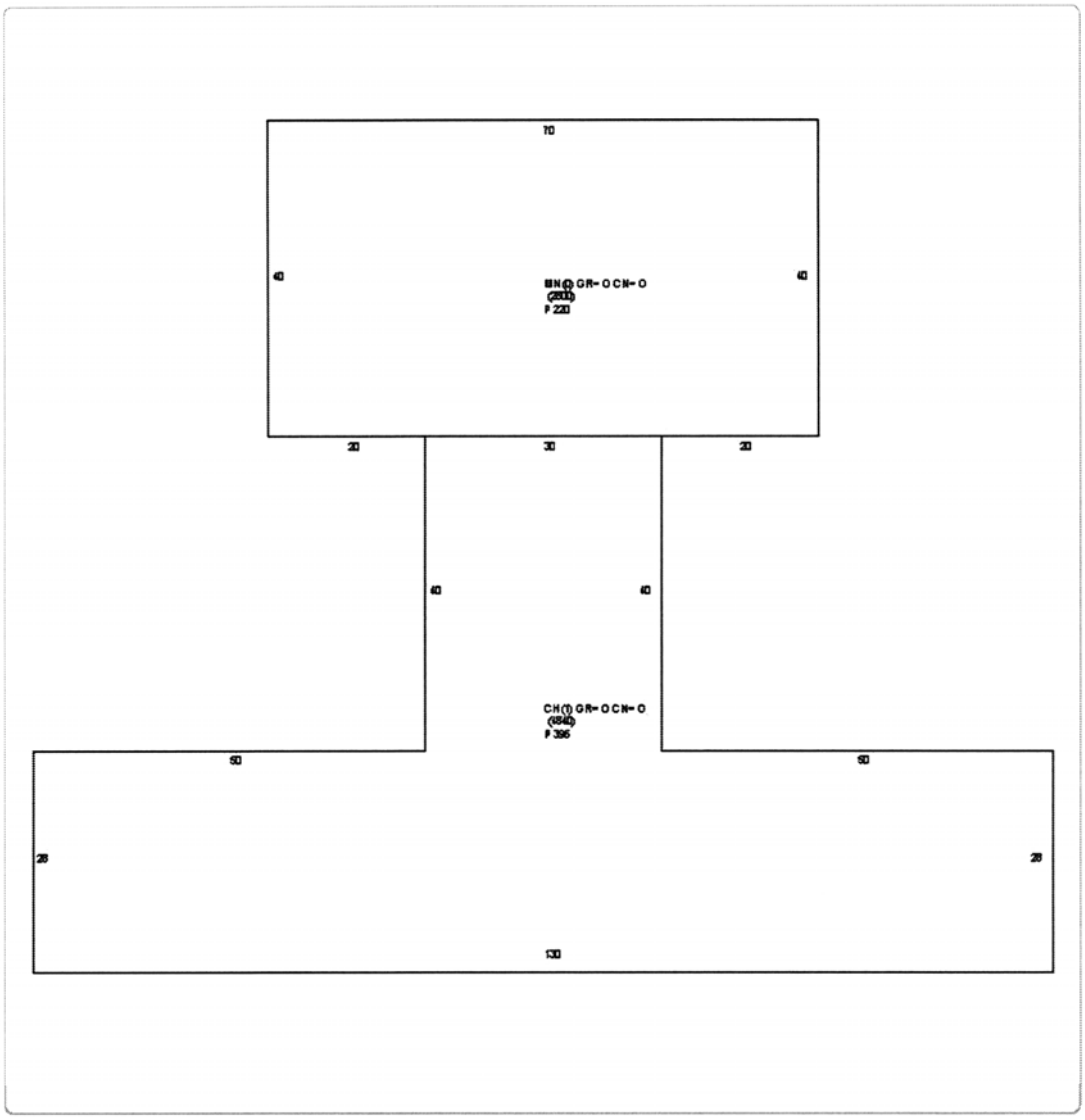
Yard Items

Description	Year Built	Out Building Type	Size	Quantity	Units	Grade
Paving Asph	1997	Paving Asph (PA)	0 x 0	1	30000 SF	
Paving Conc	1997	Paving Conc (PC)	0 x 0	1	6000 SF	

Sales

Sale Date	Sale Price	Instrument Number	Deed Book	Deed Page	Sale Qualification	Vacant or Improved	Grantee
10/10/2018	$850,000	DEE-2018-47457	121M	343	Qualified	Improved	
7/1/1987	$100,000	DEE-1987-6498	53K	895	Qualified	Improved	
10/1/1952	$0		19B	263	Unqualified - NEEDS VALIDATION CODE	Improved	

Sketches



No data available for the following modules: Exemptions, Buildings, Mobile Home Buildings, Photos.

Spartanburg County makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll.
User Privacy Policy
GDPR Privacy Notice

Developed by Schneider GEOSPATIAL

Last Data Upload: 6/16/2022, 9:20:51 AM

Version 2.3.200

APPENDIX C:

DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

June 17, 2022

Re: Treatment of Purge Water
Rhodes Service Station
Wellford, South Carolina
SCDHEC Site ID Number 08562
MECI Project Number 22-7864

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site-by-site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

A total of 23.00 gallons were treated on June 7. 2022, at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

APPENDIX D:

ACCESS AGREEMENT

State Lead Option
Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit #	08562	
Facility Name:	Southern Store 506	
Facility Address:	410 SPARTANBURG HWY WELLFORD SC	
Facility Phone Number:	864-949-3994	
Is facility within city limits? (check yes/no)	☐ Yes	☑ No
Name of nearest intersecting street/road/highway:	Spartanburg HWY	
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: Trushorkumar Patel	**Phone Number:** 864-305-6215	
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: Rambir	**Phone Number:** 703-850-7282	

***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 Property Owner (Print): TRUSHIAR PATEL	
Signature of Property Owner or authorized representative:	**Date**
Affiliation (if applicable)	
Signature of Witness	**Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:** 864-305-6215
Email Address:	Trushar2016@yahoo.com	

APPENDIX E

DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are 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? (Table 2 & Figure 3)	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? (Appendix A)	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?			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? (Table 1)			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? (Figures 3)	X		
40	Has the site potentiometric map been provided? (Figure 4)	X		
41	Have the geologic cross-sections been provided?			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?			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix B)			X
47	Have the soil boring/field screening logs been provided?			X
48	Have the well completion logs and SCDHEC Form 1903 been provided?			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			X
50	Have the disposal manifests been provided? (Appendix C)			X
51	Has a copy of the local zoning regulations been provided?			X
52	Has all fate and transport modeling been provided?			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix D)			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? (Appendix E)	X		

APPENDIX F:

PHOTOS

08562_MW04
Product

Table # 1

Summary of Analytical Results - Water Samples

RHODES SERVICE STATION

Facility ID# 08562

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	06/07/2022	<0.020	<125	<2500	<125	<125	<5000	<250	**961**	<125	**289**	**2770**	5900	3920	1980	<2500	<250	<2500	<1250
DUP-2	06/07/2022	**1.0**	<125	<2500	<125	<125	<5000	<250	**1170**	<125	**325**	**3760**	6960	4710	2250	<2500	<250	<2500	<1250
FIELD BLANK	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-1	06/07/2022	**0.11**	<125	<2500	<125	<125	<5000	<250	**1670**	<125	**742**	**3940**	10000	6470	3560	<2500	<250	<2500	<1250
MW-10R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-11	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-12	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-13R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-14R	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-15	06/07/2022	**0.75**	<100	<2000	<100	<100	<4000	<200	**1140**	<100	**300**	**3070**	6250	4310	1940	<2000	<200	<2000	<1000
MW-16	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-17	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-18	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-19	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-21	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-22	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-23	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-24	06/07/2022	<0.021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-25	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-3	06/07/2022	<0.020	<250	<5000	<250	<250	<10000	<500	**3090**	<250	**565**	**1780**	**12800**	10900	1940	<5000	<500	<5000	<2500
MW-5	06/07/2022	**95.4**	<1250	<25000	**5530**	<1250	<50000	<2500	**3470**	<1250	<1250	**39800**	**18600**	12600	6000	<25000	<2500	<25000	<12500
MW-6	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-8	06/07/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-9R	06/07/2022	<0.021	**5.2**	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	13.1	<5.0	<5.0	<10.0	<5.0	103	<10.0	<100	<50.0
RW-1	06/07/2022	<0.020	<125	<2500	<125	<125	<5000	<250	**1750**	<125	**417**	**3930**	10000	6910	3130	<2500	<250	<2500	<1250
RW-2	06/07/2022	**1090**	<1250	<25000	**24100**	<1250	<50000	<2500	**3350**	<1250	<1250	**42800**	**17600**	11800	5780	<25000	<2500	<25000	<12500
TB	06/07/2022	N/A	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
VMW-1	06/07/2022	<0.020	<5.0	<100	**12.6**	<5.0	<200	<10.0	<5.0	<5.0	<5.0	24.9	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:

ND = Not Detected

ft. BGS = feet below ground surface

mg/L = milligrams per liter

Table 2
Site Activity Summary

UST Permit #: 08562
Facility Name: Rhodes Service Station
County: Spartanburg
Field Personnel: J. Canavan, C. Hansen, M. Funderburk, S. Sprott

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-1	Y	6/7/22	11:36	15-25	***	16.51	***	100.00	83.49	1.21	0.00	Strong Odor
MW-2	N	6/7/22	NL	15-25	***	NL	***	99.04	NL	NL	0.00	Not Located / Possibly Destroyed
MW-3	Y	6/7/22	12:21	15-25	***	15.79	***	99.57	83.78	1.09	0.00	Strong Odor
MW-4	N	6/7/22	FPP	10-30	15.70	15.72	0.02	98.65	82.95	FPP	0.00	FPP = Free Phase Petroleum Product
MW-5	Y	6/7/22	12:08	10-30	***	15.04	***	97.85	82.81	0.61	0.00	Strong Odor
MW-6	Y	6/7/22	10:46	10-30	***	15.43	***	97.87	82.44	2.35	0.00	No Odor
MW-7	N	6/7/22	NL	10-30	***	NL	***	97.26	NL	NL	0.00	Not Located/Possibly Detroyed
MW-8	Y	6/7/22	10:05	10-30	***	17.62	***	99.33	81.71	1.86	0.00	No Odor
MW-9R	Y	6/7/22	9:30	10-30	***	18.63	***	98.43	79.80	2.57	0.00	No Odor
MW-10	Y	6/7/22	9:33	10-30	***	17.89	***	98.71	80.82	5.14	0.00	No Odor
MW-11	Y	6/7/22	9:45	7-27	***	16.26	***	98.49	82.23	2.50	0.00	No Odor
MW-12	Y	6/7/22	10:03	10-30	***	15.68	***	97.75	82.07	2.35	0.00	No Odor
MW-13	Y	6/7/22	9:38	15-35	***	18.22	***	99.30	81.08	5.15	0.00	No Odor
MW-14R	Y	6/7/22	9:26	10-30	***	17.97	***	99.96	81.99	4.91	0.00	No Odor
MW-15	Y	6/7/22	11:28	10-30	***	14.72	***	97.79	83.07	0.82	0.00	Strong Odor
											0.00	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #: 08562
Facility Name: Rhodes Service Station
County: Spartanburg
Field Personnel: J. Canavan, C. Hansen, M. Funderburk, S. Sprott

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-16	Y	6/7/22	11:02	10-30	***	15.80	***	98.68	82.88	3.05	0.00	No Odor
MW-17	Y	6/7/22	10:38	10-30	***	15.81	***	98.89	83.08	2.47	0.00	No Odor
MW-18	Y	6/7/22	10:31	10-30	***	14.63	***	98.43	83.80	1.50	0.00	No Odor
MW-19	Y	6/7/22	9:13	15-35	***	19.42	***	Unknown	Unknown	6.65	0.00	No Odor
MW-20	N	6/7/22	NL	10-30	***	NL	***	98.68	NL	NL	0.00	Not Located / Possibly Destroyed
MW-21	Y	6/7/22	11:09	15-35	***	16.94	***	99.39	82.45	6.01	0.00	No Odor
MW-22	Y	6/7/22	10:50	15-35	***	15.50	***	97.96	82.46	3.66	0.00	No Odor
MW-23	Y	6/7/22	10:09	10-30	***	14.51	***	97.33	82.82	5.72	0.00	No Odor
MW-24	Y	6/7/22	10:33	15-35	***	17.27	***	98.13	80.86	1.67	0.00	No Odor
MW-25	Y	6/7/22	9:15	10-30	***	17.89	***	98.06	80.17	3.24	0.00	No Odor
VMW-1	Y	6/7/22	15:26	55-60	***	14.59	***	98.32	83.73	1.14	23.00	No Odor
VMW-2	N	6/7/22	NL	34-41	***	NL	***	98.32	NL	NL	0.00	Not Located
RW-1	Y	6/7/22	11:16	15-35	***	16.29	***	98.74	82.45	0.94	0.00	Strong Odor, 4"-Inch Diameter Well
RW-2	Y	6/7/22	12:13	15-35	***	15.33	***	98.48	83.15	1.21	0.00	Strong Odor, 4"-Inch Diameter Well
DUP-1	Y	6/7/22	11:16	***	***	***	***	***	***	***	***	Duplicate of RW-1
											23.00	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

Midlands Environmental Consultants, Inc.

UST Permit #:	08562
Facility Name:	Rhodes Service Station
County:	Spartanburg
Field Personnel:	J. Canavan, C. Hansen, M. Funderburk, S. Sprott

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
DUP-2	Y	6/7/22	11:28	***	***	***	***	***	***	***	***	Duplicate of MW-15
Field Blank	Y	6/7/22	10:39	***	***	***	***	***	***	***	***	Field Blank
Trip Blank	Y	6/7/22	8:00	***	***	***	***	***	***	***	***	Trip Blank
											0.00	**TOTAL GALLONS PURGED**

Reference: Wellford, South Carolina
USGS 7.5 Min. Quad
Contour Interval – 3 Meters

Midlands Environmental Consultants, Inc.

Site Location

Rhodes Service Station
410 Spartanburg Highway, Wellford, SC

Reference: Wellford, South Carolina
USGS 7.5 Min. Quad
Contour Interval = 3 Meters

Midlands Environmental Consultants, Inc.	Site Location
Rhodes Service Station 410 Spartanburg Highway, Wellford, SC UST Permit# 08562	
Figure 1	MECI 22-7864

HP LASER JET 4v ORIGIN

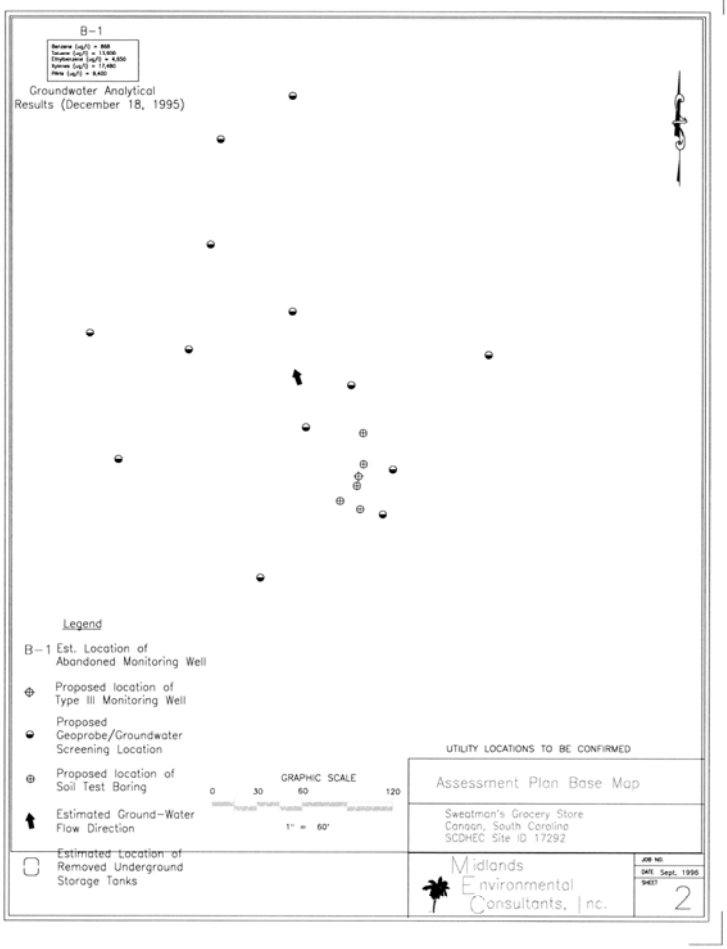
Explanation:

- Location of Soil Test Boring
- Location of Six-inch Aquifer Test Well
- MW-1 Location of Watertable Bracketing Monitoring Well
- MW-1D Location of Double Cased "Deep" Monitoring Well
- Location of Shallow Monitoring Well
- Location of "Intermediate" Monitoring Well
- Location of 4-inch Recovery Well
- Location of Water Supply Well
- Location of Newly Installed Watertable Bracketing Monitoring Well
- SW-1 Location of Surface Water Sample Collection
- Buried Electric
- Property Line
- Buried Gas Line
- Buried Water Line
- Buried Sewer
- Under Ground Telephone
- Fence
- Storm Sewer
- Stream
- Buried Product Lines
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- Geoprobe, Screening Dry Ho
- GPW-1 Geoprobe, Screening BTEX
- Geoprobe, Screening Not De
- Temp. We Screening BTEX
- Temp. We Screening Not De

A — A' Geologic Cross Section (Refer to Figures 4 & 5)

MW-1 Location of "Deep" Monitoring Well

Explanation
Location of Soil Vapor Boring
Location of Six-inch Aquifer Test Well
Location of Bioventing/ Biosparging Monitoring Well
Location of Double Cased "Deep" Monitoring Well
Location of Shallow Monitoring Well
Location of "Intermediate" Monitoring Well
Location of 4-inch Recovery Well
Location of Blower Supply Well
Location of Newly Installed Bioventing/ Biosparging Monitoring Well
Location of Surface Water Sample Collection
Buried Electric
Property Line
Buried Gas Line
Buried Water Line
Buried Sewer
Buried Underground Telephone
Fence
Storm Sewer
Stream
Buried Product Lines
Estimated Groundwater Flow Direction
Estimated Location of Existing Underground Storage Tanks
Estimated Location of Existing Underground Storage Tanks
Storm Sewer Drop Inlet
Geoprobe/Immunoassay Screening Location- Dry Hole
Geoprobe/Immunoassay Screening Location- BTEX Detected
Geoprobe/Immunoassay Screening Location- Not Detected
Temp. Well/Immunoassay Screening Location- BTEX Detected
Temp. Well/Immunoassay Screening Location- Not Detected
Geologic Cross Section (Refer to Figures 4 & 5)
Location of "Deep" Monitoring Well
Site Base Map
2
HP LASER JET 4si ORION



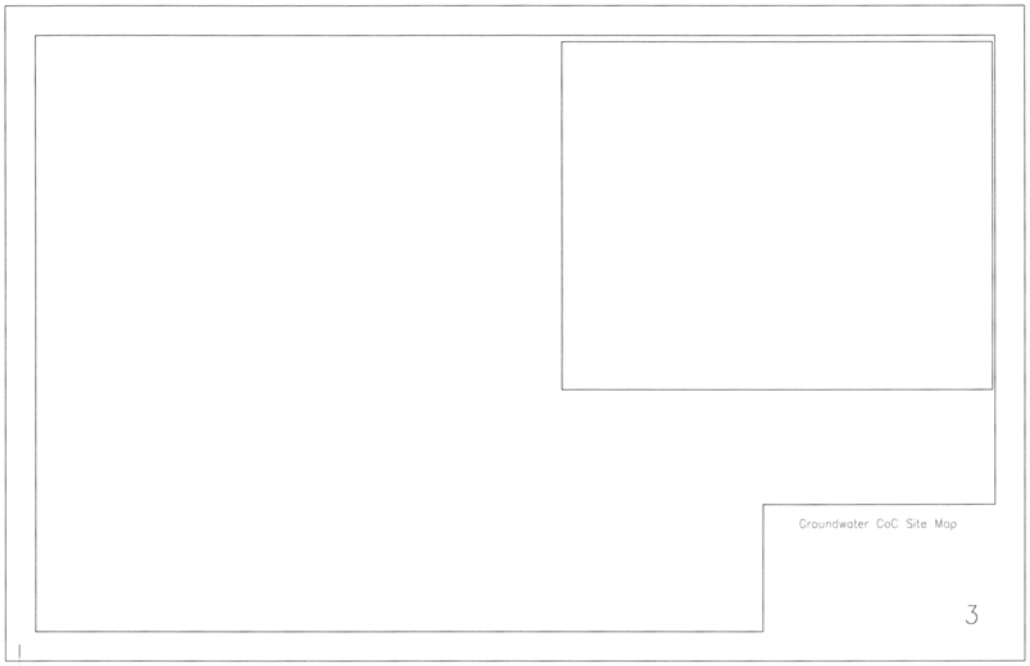
UTILITY LOCATIONS TO BE CONFIRMED

Assessment Plan Base Map

Sweatman's Grocery Store
Canaan, South Carolina
SCDHEC Site ID 17292

Midlands Environmental Consultants, Inc.

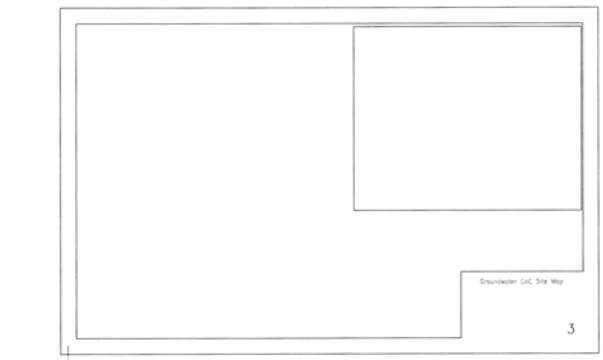
JOB NO.
DATE Sept. 1996
SHEET 2

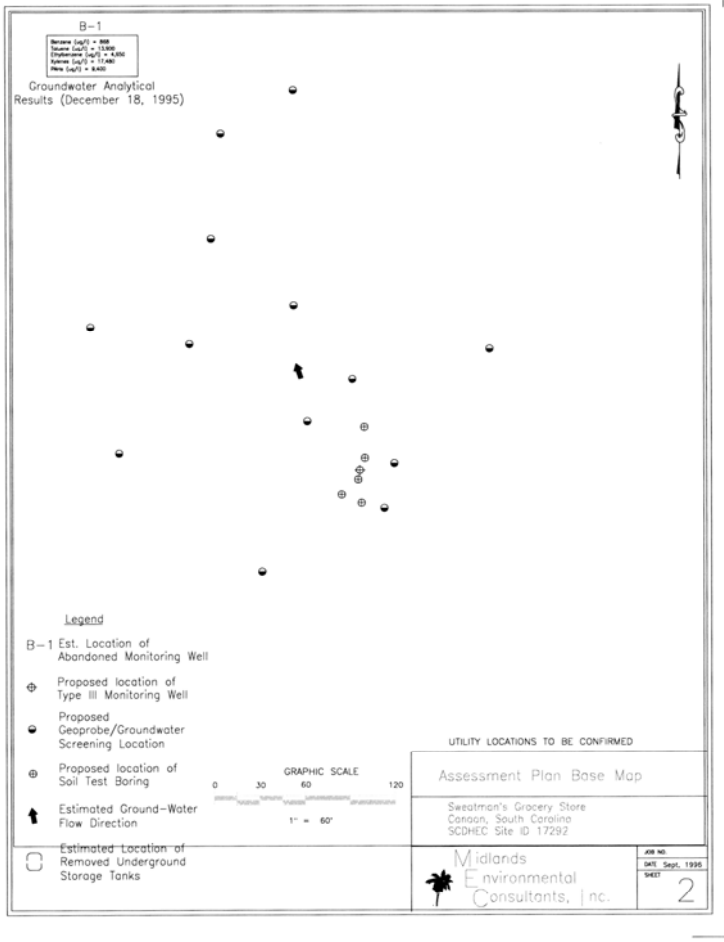


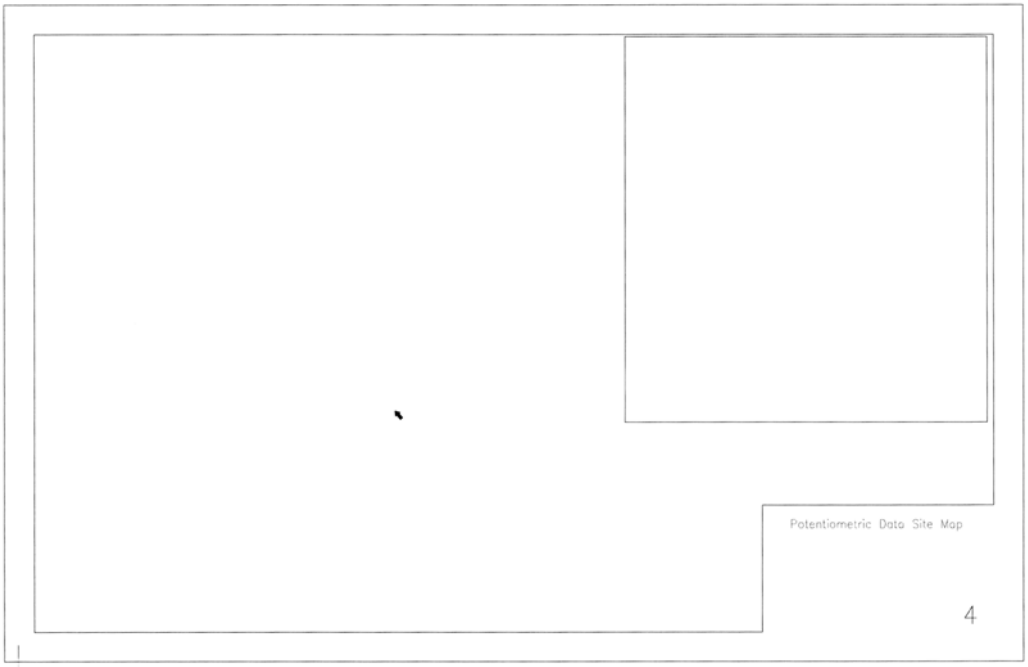
HP LASER JET 4v ORIGIN

Explanation:

- Location of Soil Test Boring
- Location of Six-inch Aquifer Test Well
- MW-1 — Location of Watertable Bracketing Monitoring Well
- MW-10d — Location of Double Cased "Deep" Monitoring Well
- Location of Shallow Monitoring Well
- Location of "Intermediate" Monitoring Well
- Location of 4-inch Recovery Well
- Location of Water Supply Well
- Location of Newly Installed Watertable Bracketing Monitoring Well
- SW-1 — Location of Surface Water Sample Collection
- Buried Electric
- Property Line
- Buried Gas Line
- Buried Water Line
- Buried Sewer
- Under Ground Telephone
- Fence
- Storm Sewer
- Stream
- Buried Product Lines
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- Geoprobe, Screening Dry Ho
- GPW-1 — Geoprobe, Screening BTEX L
- Geoprobe, Screening Not De
- Temp. We Screening BTEX L
- Temp. We Screening Not De
- A — A' Geologic Cross Section (Refer to Figures 4 & 5)
- MW-1 — Location of "Deep" Monitoring Well


Groundwater CoC Site Map
3

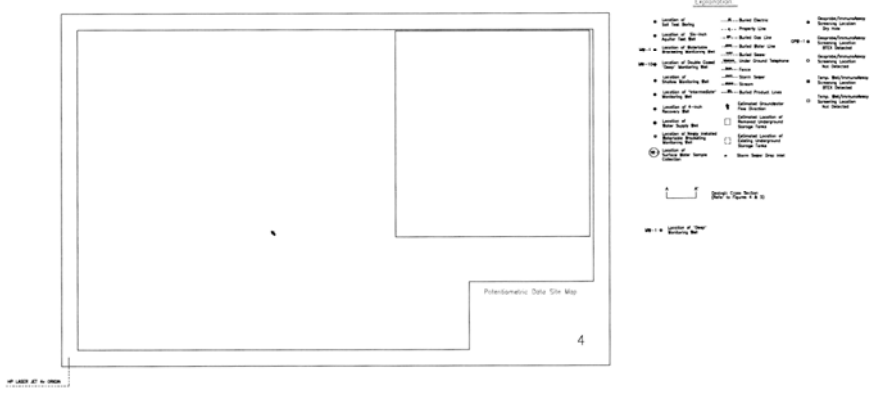

B-1
Benzene (ug/l) = 868
Toluene (ug/l) = 13,900
Ethylbenzene (ug/l) = 4,856
Xylenes (ug/l) = 17,480
Meta (ug/l) = 8,400
Groundwater Analytical Results (December 18, 1995)
Legend
B-1 Est. Location of Abandoned Monitoring Well
Proposed location of Type III Monitoring Well
Proposed Geoprobe/Groundwater Screening Location
Proposed location of Soil Test Boring
Estimated Ground-Water Flow Direction
Estimated Location of Removed Underground Storage Tanks
GRAPHIC SCALE
0 30 60 120
1" = 60'
UTILITY LOCATIONS TO BE CONFIRMED
Assessment Plan Base Map
Sweatman's Grocery Store
Canaan, South Carolina
SCDHEC Site ID 17292
Midlands Environmental Consultants, Inc.
JOB NO.
DATE Sept. 1995
SHEET
2

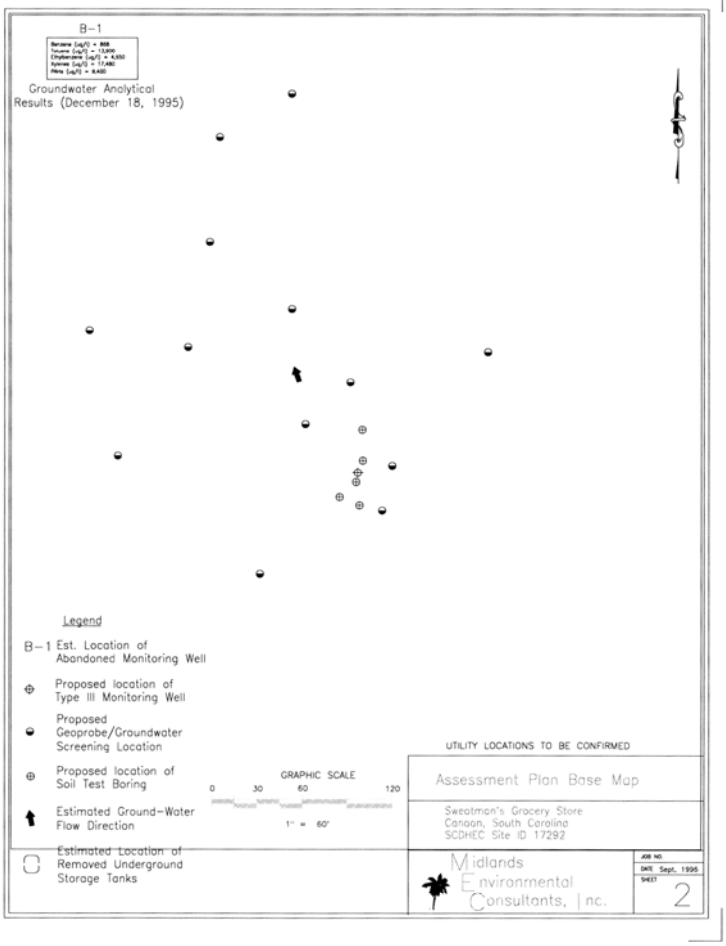


HP LASER JET 4v ORIGIN

Explanation:

- Location of Soil Test Boring
- Location of Six-inch Aquifer Test Well
- MW-1 Location of Watertable Bracketing Monitoring Well
- MW-10D Location of Double Cased "Deep" Monitoring Well
- Location of Shallow Monitoring Well
- Location of "Intermediate" Monitoring Well
- Location of 4-Inch Recovery Well
- Location of Water Supply Well
- Location of Newly Installed Watertable Bracketing Monitoring Well
- SW-1 Location of Surface Water Sample Collection
- Buried Electric
- Property Line
- Buried Gas Line
- Buried Water Line
- Buried Sewer
- Under Ground Telephone
- Fence
- Storm Sewer
- Stream
- Buried Product Lines
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- A — A' Geologic Cross Section (Refer to Figures 4 & 5)
- MW-1 Location of "Deep" Monitoring Well
- Geoprobe, Screening Dry Ho
- GPW-1 Geoprobe, Screening BTEX L
- Geoprobe, Screening Not De
- Temp. We Screening BTEX L
- Temp. We Screening Not De


Explanation
Potentiometric Data Site Map
4



Legend

B-1 Est. Location of Abandoned Monitoring Well

Proposed location of Type III Monitoring Well

Proposed Geoprobe/Groundwater Screening Location

Proposed location of Soil Test Boring

Estimated Ground-Water Flow Direction

Estimated Location of Removed Underground Storage Tanks

GRAPHIC SCALE
0 30 60 120
1" = 60'

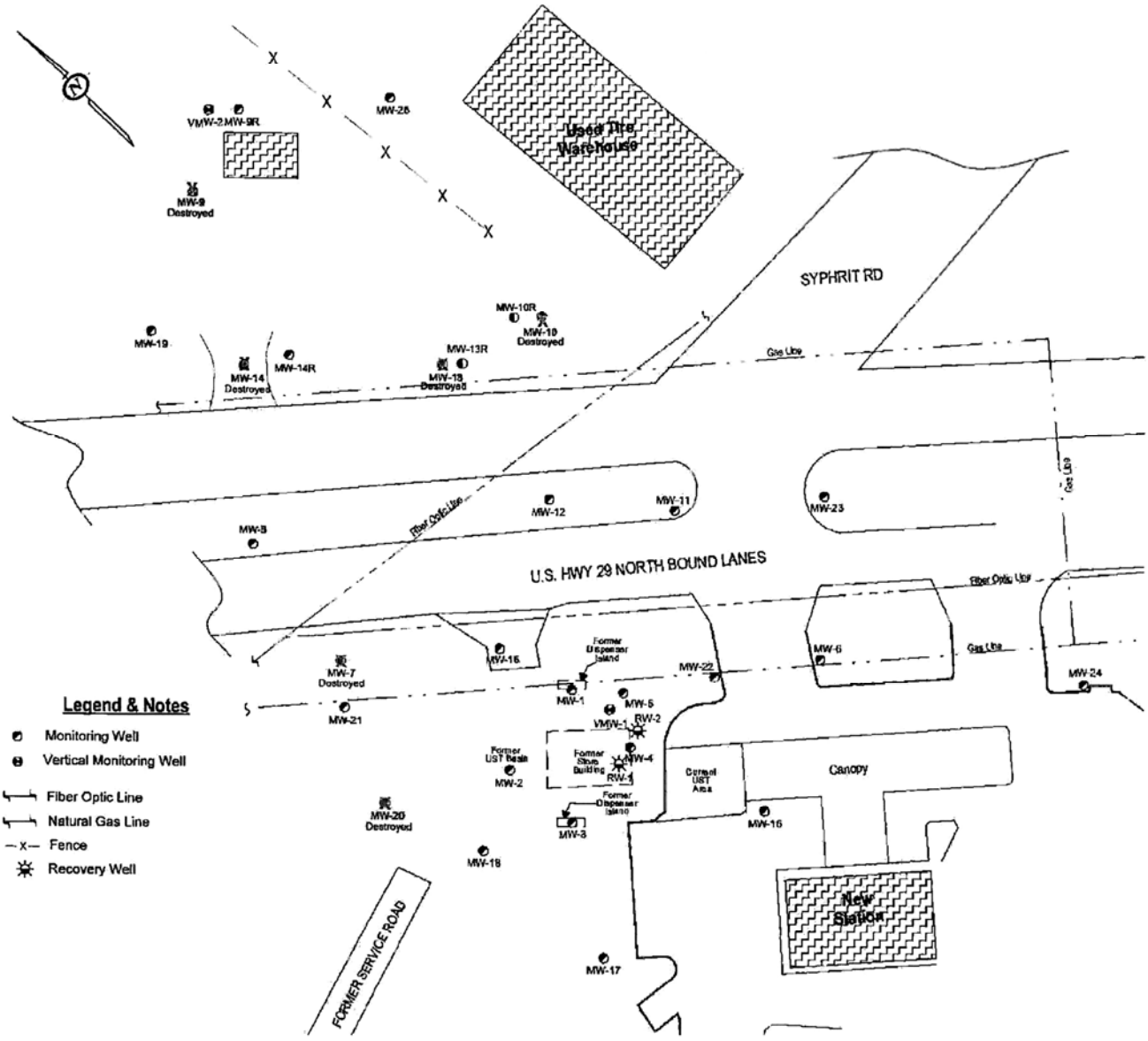
UTILITY LOCATIONS TO BE CONFIRMED

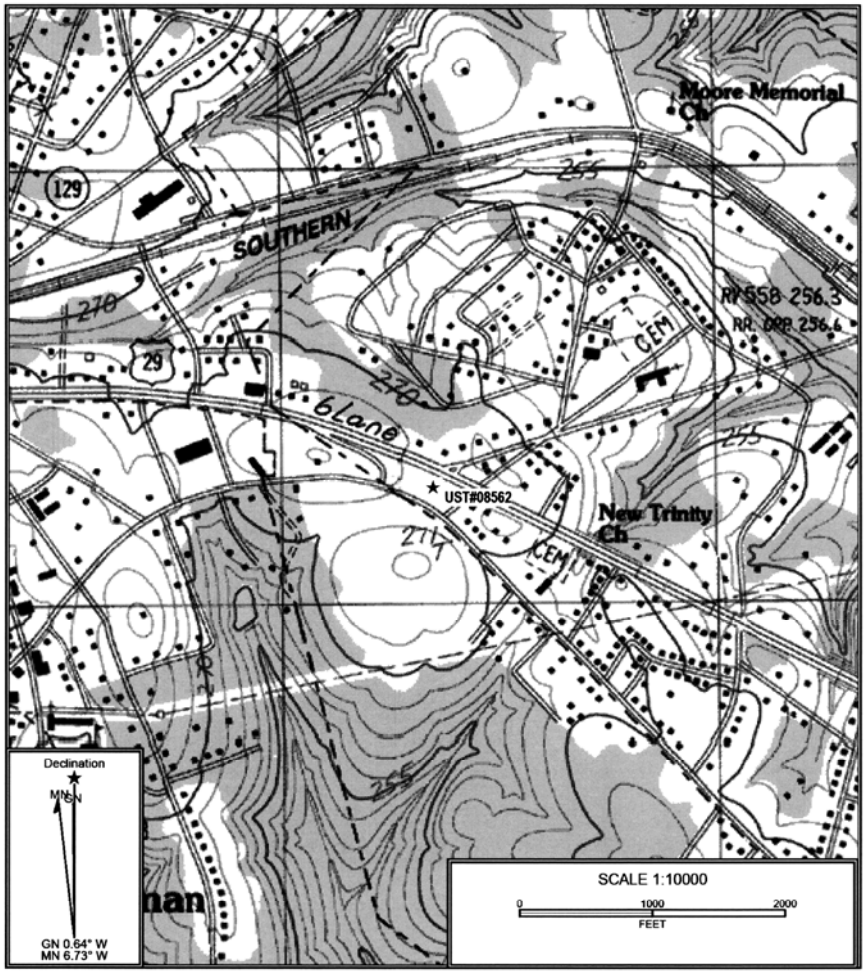
Assessment Plan Base Map

Sweatman's Grocery Store
Canaan, South Carolina
SCDHEC Site ID 17292

Midlands Environmental Consultants, Inc.

JOB NO.
DATE Sept. 1996
SHEET 2


Used Tire Warehouse
SYPHRIT RD
MW-26
VMW-2
MW-9R
MW-9
Destroyed
MW-19
MW-14
Destroyed
MW-14R
MW-13R
MW-13
Destroyed
MW-10R
MW-10
Destroyed
Gas Line
MW-12
MW-11
MW-23
MW-8
Fiber Optic Line
U.S. HWY 29 NORTH BOUND LANES
Fiber Optic Line
MW-16
Former Dispenser Island
MW-22
MW-6
Gas Line
MW-24
MW-7
Destroyed
MW-21
MW-1
MW-5
VMW-1
RW-2
RW-1
MW-4
Former UST Basin
MW-2
Former Store Building
Current UST Area
Canopy
Former Dispenser Island
MW-3
MW-20
Destroyed
MW-18
MW-16
New Station
MW-17
FORMER SERVICE ROAD
Legend & Notes
Monitoring Well
Vertical Monitoring Well
Fiber Optic Line
Natural Gas Line
Fence
Recovery Well


Moore Memorial Ch
129
SOUTHERN
255
RY 558 256.3
RR. DPP 256.6
270
29
CEM
6 Lane
UST#08562
New Trinity Ch
271
CEM
Declination
MN
GN
GN 0.64° W
MN 6.73° W
SCALE 1:10000
0
1000
2000
FEET

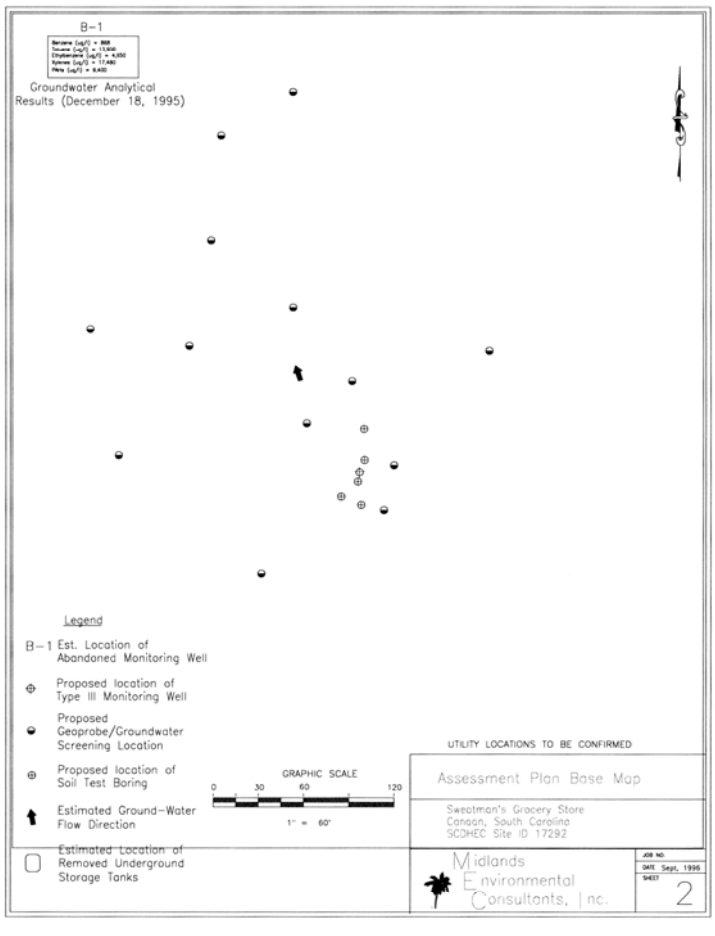
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
UST Permit# 08562

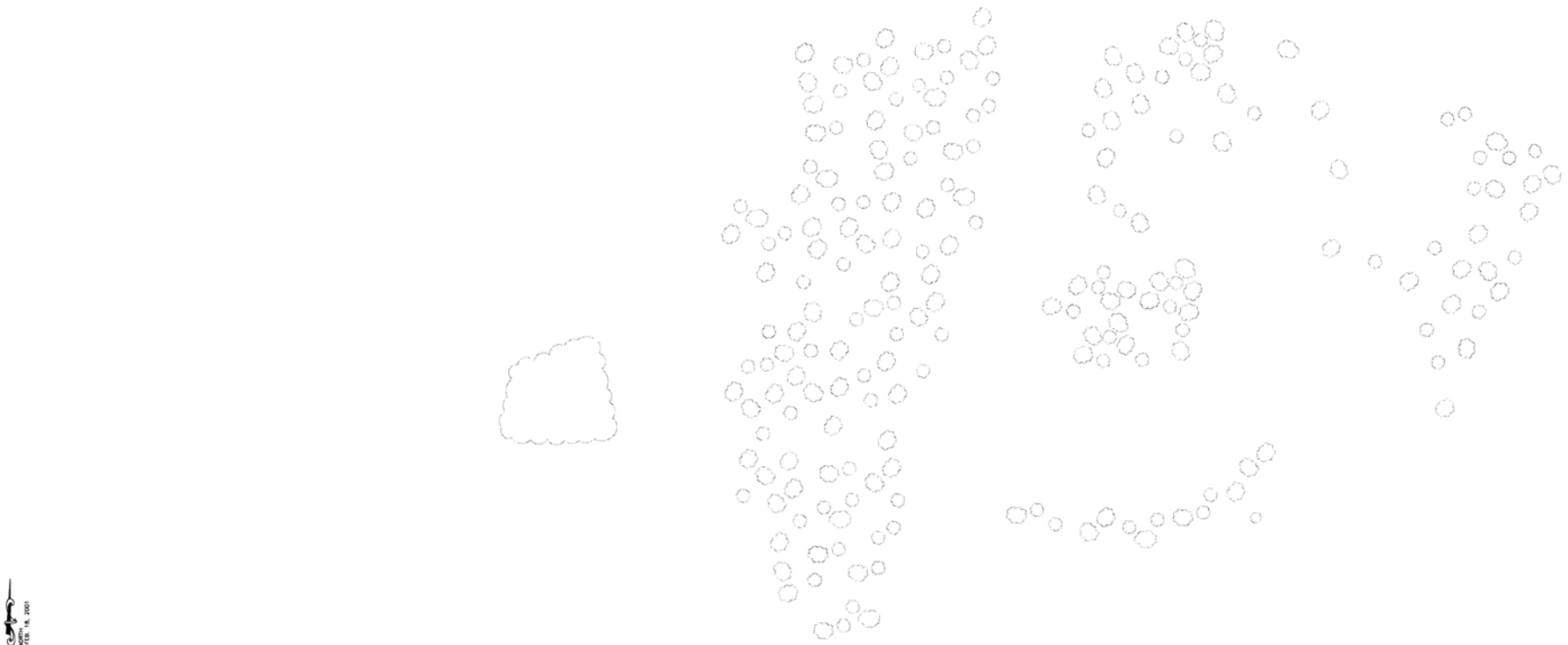
Midlands Environmental Consultants, Inc.

JOB NO. 22-7864
DATE June 17, 2022
FIGURE

HP LASER JET 4v ORIGIN

HP LASER JET 4v ORIGIN


B-1
Groundwater Analytical Results (December 18, 1995)
Legend
B-1 Est. Location of Abandoned Monitoring Well
Proposed location of Type III Monitoring Well
Proposed Geoprobe/Groundwater Screening Location
Proposed location of Soil Test Boring
Estimated Ground-Water Flow Direction
Estimated Location of Removed Underground Storage Tanks
GRAPHIC SCALE
0 30 60 120
1" = 60'
UTILITY LOCATIONS TO BE CONFIRMED
Assessment Plan Base Map
Sweatman's Grocery Store
Canaan, South Carolina
SCDHEC Site ID 17292
Midlands Environmental Consultants, Inc.
JOB NO.
DATE Sept. 1996
SHEET 2



MAGNETIC NORTH
RECORDED FEB. 14, 2001

Explanation:

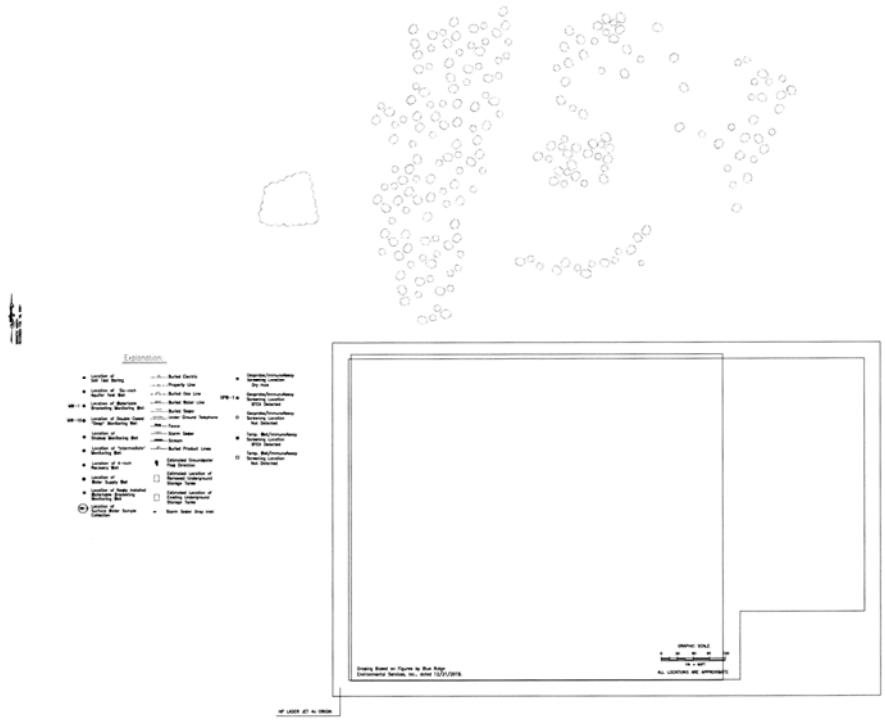
- Location of Soil Test Boring
- Location of Six-inch Aquifer Test Well
- MW-1 Location of Watertable Bracketing Monitoring Well
- MW-1D Location of Double Cased "Deep" Monitoring Well
- Location of Shallow Monitoring Well
- Location of "Intermediate" Monitoring Well
- Location of 4-Inch Recovery Well
- Location of Water Supply Well
- Location of Newly Installed Watertable Bracketing Monitoring Well
- SW Location of Surface Water Sample Collection

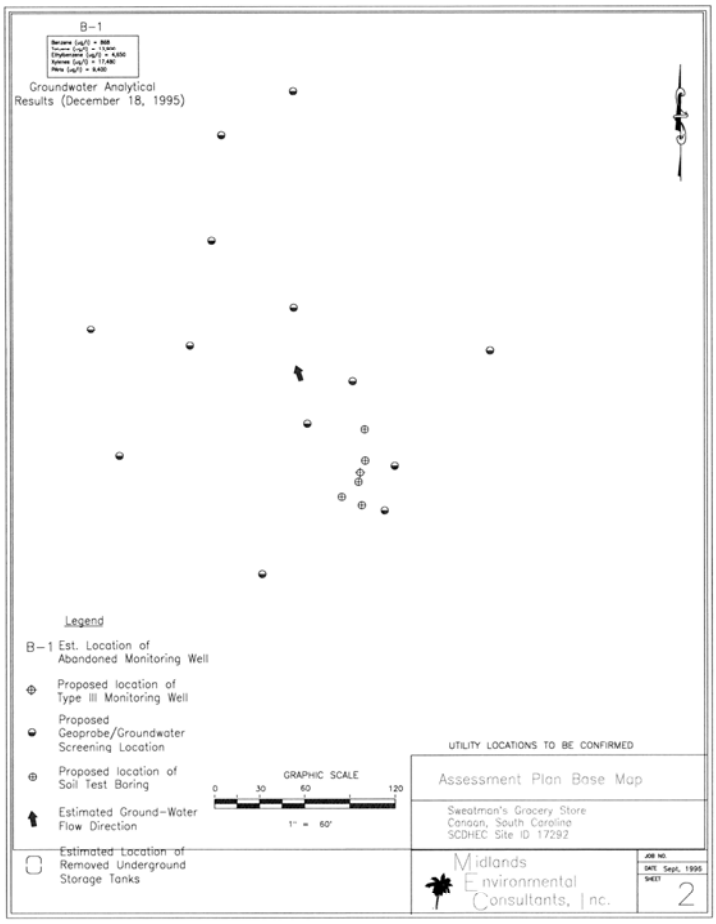
- Buried Electric
- Property Line
- Buried Gas Line
- Buried Water Line
- Buried Sewer
- Under Ground Telephone
- Fence
- Storm Sewer
- Stream
- Buried Product Lines
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet

- Geoprobe/ImmunoAssay Screening Location Dry Hole
- GPW-1 Geoprobe/ImmunoAssay Screening Location BTEX Detected
- Geoprobe/ImmunoAssay Screening Location Not Detected
- Temp. Well/ImmunoAssay Screening Location BTEX Detected
- Temp. Well/ImmunoAssay Screening Location Not Detected

Drawing Based on Figures by Blue Ridge Environmental Services, Inc., dated 12/21/2018.

GRAPHIC SCALE
0 30 60 90 120
1IN = 60FT
ALL LOCATIONS ARE APPROXIMATE


Explanation
Drawing Based on Figures by Blue Ridge Environmental Services, Inc., dated 12/31/2018.
GRAPHIC SCALE
ALL LOCATIONS ARE APPROXIMATE
HF LASER JET Au ORIGIN


B-1
Benzene (ug/l) = 868
Toluene (ug/l) = 11,000
Ethylbenzene (ug/l) = 4,650
Xylenes (ug/l) = 17,480
Meta (ug/l) = 8,430
Groundwater Analytical Results (December 18, 1995)
Legend
B-1 Est. Location of Abandoned Monitoring Well
Proposed location of Type III Monitoring Well
Proposed Geoprobe/Groundwater Screening Location
Proposed location of Soil Test Boring
Estimated Ground-Water Flow Direction
Estimated Location of Removed Underground Storage Tanks
GRAPHIC SCALE
0 30 60 120
1" = 60'
UTILITY LOCATIONS TO BE CONFIRMED
Assessment Plan Base Map
Sweatman's Grocery Store
Canaan, South Carolina
SCDHEC Site ID 17292
Midlands Environmental Consultants, Inc.
JOB NO.
DATE Sept. 1995
SHEET
2

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MR ROBERT TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

DEC 09 2009

Hech UST DOCKET

Re: Additional Assessment Directive
Rhodes Service Station, 410 Spartanburg Hwy S, Wellford, SC
UST Permit # 08562; CA # 37752; MWA#UMW-23323
Release reported January 24, 1990
AFVR/Monitoring Report received October 16, 2009
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using your own contractor. The referenced report indicates that concentrations of chemicals of concern (CoCs) exceed risk-based screening levels (RBSL) in monitoring wells MW-6 and MW-13. Also MW-7, MW-9, and MW-14 were not located/sampled during the last sampling event. Therefore the hydrocarbon plume remains undefined and additional monitoring wells (based on the results of the field screening) will be required. Please refer to the enclosed site map. To verify the plume is defined before permanent wells have been installed, laboratory analyses have been approved for four BTEX, MtBE, naphthalene and EDB groundwater samples from selected field screening points (three shallow and one deep). Please have your site rehabilitation contractor coordinate all screening data with the Division to finalize permanent well locations before they are installed. Well approval to install up to eleven temporary wells, eight shallow wells and one deep well (set on top of rock, if rock is encountered) has been provided to your contractor. A copy is enclosed for your records. Groundwater samples from all newly installed monitoring wells associated with this release should be collected and analyzed for BTEX, naphthalene, MtBE. DCA, EDB, lead, and 8 Oxygenates. All groundwater samples and analyses should be in accordance with *Analytical Methodology* dated June 24, 2005. A copy of this publication is available on line at : http://www.scdhec.gov/eqc /ust/pubs/analmet.pdf. . Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that decision cannot be made based upon a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL). In this case, payment for the analysis may be denied. **The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table.**

Cost Agreement #37752 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned work. Please have your consultant submit results in an assessment report containing the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, dissolved oxygen, water temperature, PID readings (where applicable) and turbidity comments.
- Well measurements (groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth, screened interval and groundwater laboratory analytical data for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular format.

- Boring Logs (should indicate field screening results, lithology, soil conditions and presence of hydrocarbon odors) and Well Logs (SCDHEC form 1903, signed by a SC Certified well driller) for each new well.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Groundwater analytical data from this and previous groundwater sampling events (historical results) for all monitoring wells shall be presented in one consolidated table.
- Revised geological cross sections based on information obtained from the installation of the new wells.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

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 assessment report and invoice are due within 90 days from the date of this letter. Blue Ridge Environmental Services, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. 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.

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 Department is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Department for the cost to be paid. The SCDHEC 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, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and to audit project records at any time during the project or after completion of work.

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 concerning this site, please reference UST Permit # 08562. If there are any questions concerning this project, please contact me at (803) 896-6664. I can also be reached by email at milenkmp@dhec.sc.gov or by fax at (803) 896-6245.

Sincerely,

Maia Milenkova, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Monitoring Well Approval
Site map

cc: Blue Ridge Environmental Services, Inc., 2315 Kings Road Ext., Shelby, NC 28152(w/enc)
Technical file (w/enc)

SCDHEC/UST/11/20/09MPM

D H E C

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C. Earl Hunter, Commissioner

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

Monitoring Well Approval Form

Approval is hereby granted to:	Blue Ridge Environmental, Inc.
On behalf of:	Odom Oil Co.
UST Permit #:	08562
Facility:	Rhodes Service Station, 410 Spartanburg Hwy., Wellford, SC
County:	Spartanburg

This approval is for the installation of up to twenty groundwater monitoring wells(eleven temporary, eight shallow and one deep). 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 Maia Milenkova (tel: 803 896-6664 or e-mail: milenkmp@dhec.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: November 24, 2009 **Approval #: UMW-23323**

Maia Milenkova, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

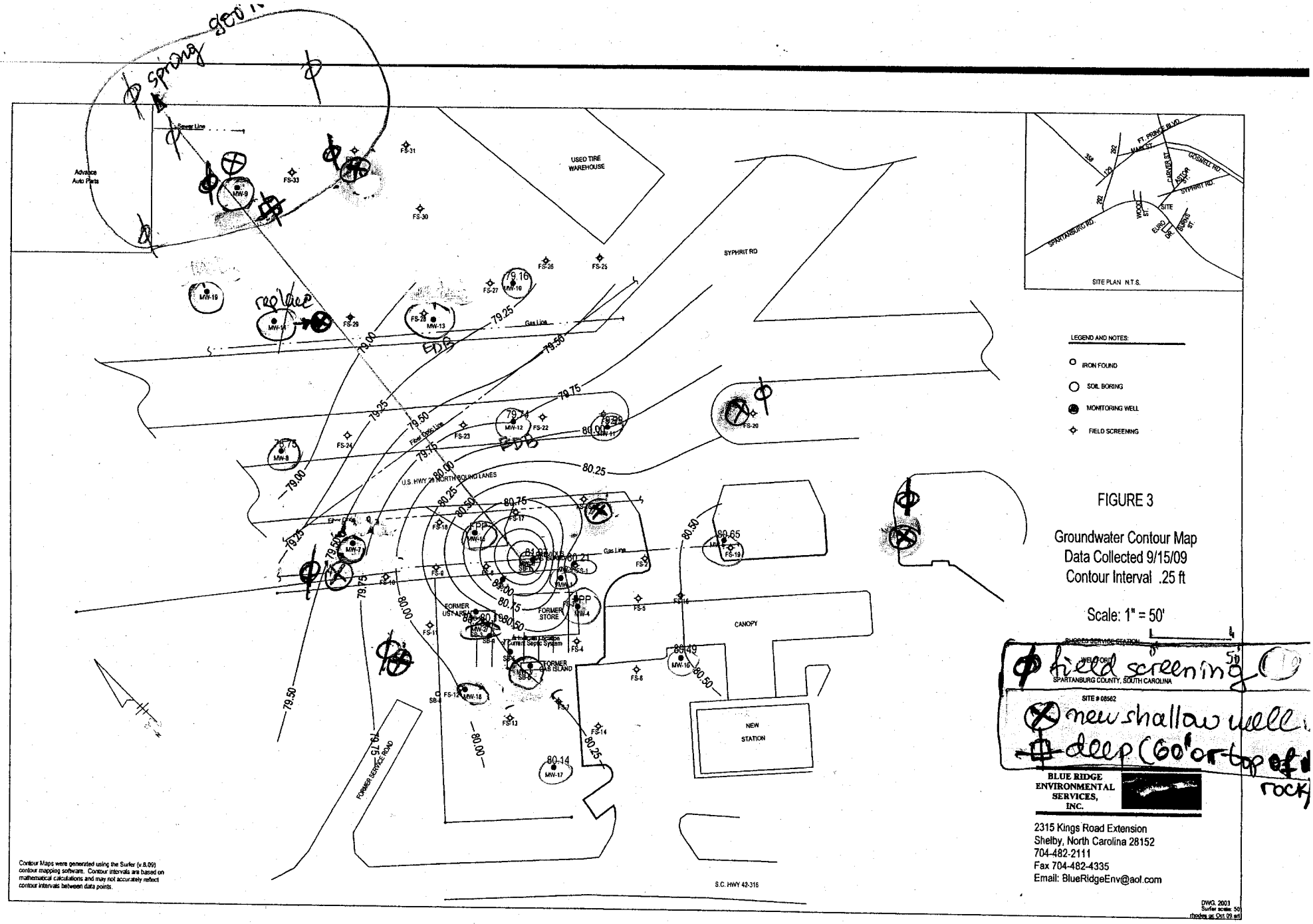

FIGURE 3

Groundwater Contour Map
Data Collected 9/15/09
Contour Interval .25 ft

Scale: 1" = 50'

RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562

Contour Maps were generated using the Surfer (v.8.09) contour mapping software. Contour intervals are based on mathematical calculations and may not accurately reflect contour intervals between data points.

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

DWG. 2003
Surfer scale: 50
rhodes gc Oct 09.srf

Approved Cost Agreement 37752

Facility: 08562 RHODES SERVICE STATION
MILENKMP
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		A EQUIPMENT	2.0000	575.00	1,150.00
		B PERSONNEL	4.0000	290.00	1,160.00
06 SOIL BORINGS (DRILLED)					
		A SOIL BORINGS & FLD SCREENING	260.0000	17.00	4,420.00
08 ABANDONMENT					
		ABANDONMENT	260.0000	5.00	1,300.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	280.0000	38.00	10,640.00
		C TELESCOPING	60.0000	58.00	3,480.00
10 SAMPLE COLLECTION					
		A GROUND WATER	9.0000	55.00	495.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	13.0000	100.00	1,300.00
		BB 1,2-DCA	9.0000	10.75	96.75
		E LEAD	9.0000	20.00	180.00
		F EDB	13.0000	55.00	715.00
		P 8 OXYGENATES	9.0000	85.00	765.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	2.0000	90.00	180.00
		C SOIL (TREATMENT/DISPOSAL)	15.0000	50.00	750.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	26,631.75	3,994.76
				Total Amount	30,626.51

D H E C

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C. Earl Hunter, Commissioner

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

APR 02 2010

CERTIFIED MAIL
91 7108 2133 3937 3693 5368

MR ROBERT TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

Re: **Notice of Alleged Violation**
Rhodes Service Station, 410 Spartanburg Hwy S, Wellford, SC
UST Permit # 08562; CA # 37752; MWA# UMW-23323
Release reported January 24, 1990
AFVR/Monitoring Report received October 16, 2009
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control directed you in December 2009 to submit an assessment report with the due date on March 9, 2010. To date the required report has not been received. In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, the assessment must be conducted as chemicals of concern are above the risk-based-screening levels.

The assessment report must be submitted within 30 days from the date of this letter. If the report is not received in accordance with this schedule, enforcement procedures will be initiated.

On all correspondence regarding this site, please reference UST Permit # 08562. If you have any questions concerning this correspondence, please call me at (803) 896-6664. I can also be reached by email at milenkmp@dhec.sc.gov or by fax at (803) 896-6245.

Sincerely, Maia Milenkova

Maia Milenkova, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

UST DOCKET 541

cc: Technical File
Blue Ridge Environmental Services, Inc., 2315 Kings Road Ext., Shelby, NC 28152

SCDHEC/UST/04/01/10/MPM

UST
APR 08 2010
PROGRAM

Tier II Additional Assessment

Rhodes Service Station

410 Spartanburg Highway
Wellford, South Carolina

Responsible Party: Former Odom Oil Company
Contact: Robert F. Turner
655 Perrin Drive
Spartanburg, South Carolina 29307
Telephone: 864-583-3684

UST
DOCKET

UST Permit #08562

April 2, 2010

Prepared by:

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
E-mail: BlueRidgeEnv@aol.com
SC Professional Geologist Registration No. 2111 (Joe McMurray)
SC Well Driller's Certification No. 734 (Joe McMurray)
SC Contractor Certification No. 0095
www.blueridgeenvironmentalservices.com

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

April 2, 2010

Ms. Maia Milenkova
UST Program
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Rhodes Service Station
410 Spartanburg Highway
Welford, SC 29365
UST Permit # 08562

Dear Ms. Milenkova:

The purpose of this correspondence is to present the results of additional assessment activities performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 37752, per a correspondence from your office dated December 9, 2009. The purpose of this assessment was to delineate the horizontal and vertical extent of the dissolved phase plume.

To determine the horizontal and vertical extent of the dissolved phase plume, Blue Ridge advanced a total of eight temporary shallow field screening locations (FS-34 through FS-39, FS-41 and FS-43) and one temporary deep field screening location to the water table in the vicinity of the of the site. The field screenings were installed between December 17, 2009 and January 14, 2010. The shallow field screenings were installed to depths ranging from of 30 to 40 feet below grade level (bgl) and a groundwater samples was collected form each location. The deep field screening was installed to depth of 43 feet bgl were auger refusal occurred and a groundwater samples was collected. Field screening samples were analyzed to obtain values for benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene and methyl-butyl-ether (MTBE). In addition, three field screening locations (VFS-40, FS-41 and FS-43) were analyzed to obtain EDB values. Please note that a ground water sample collected from FS-38 could not be analyzed to obtain an EDB value due to laboratory error. The locations the field screenings are illustrated on Figure 3.

Recycled Paper

For field screening soil lithology at site specific locations refer to boring logs, which are included as appendix A. The results from the field screening data are included on Table 1 - Select Summary of Groundwater (Field Screening Results) and Figure 3 - Field Screening Results. The field screening laboratory results were used to determine the most appropriate locations for the permanent monitor wells.

Based on the data obtained from the field screenings one permanent Type III monitor well (VMW-2) and eight additional permanent Type II monitor wells (MW-9R, MW-14R and MW-20 through MW-25) were installed during this assessment. The wells were installed between January 14, 2010 and February 18, 2010. The locations of the monitor wells are depicted on Figure 2. Well construction records are enclosed as Appendix C. A geologic cross section location map and geologic cross sections based on the boring logs and installation of wells have been included as Figure 8, Figure 9 and Figure 10 receptively.

On February 18, 2010, Blue Ridge mobilized to the site for the purpose of sampling newly installed monitor wells MW-9R, MW-14R, MW-20 through MW-25 and VMW-2. Groundwater samples were obtained and analyzed by Method 6010C for lead. In addition the sample collected from VMW-2 was analyzed by Method 8260B for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates and Method 8011 for EDB. Please note due to a laboratory error, groundwater samples collected from monitor wells MW-9R, MW-14R, MW-20 through MW-25 did not get analyzed by Method 8260B for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates and Method 8011.

On March 11, 2010, Blue Ridge again mobilized to the site for the purpose of resampling monitor wells MW-9R, MW-14R and MW-20 through MW-25. The groundwater samples collected on March 11, 2010 were analyzed by Method 8260B for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates and Method 8011.

Static water levels recorded from the wells sampled ranged between 12.42 feet @ MW-23 to 19.38 feet below grade level @ MW-2. Based on the current static water levels obtained during this assessment, the direction of groundwater flow was calculated primarily to the northwest. Historical groundwater flow has been to the north. Please note that only the newly installed monitor wells were factored in groundwater flow calculations during this assessment. Refer to Table 2 - Relative Groundwater Elevations and Figure 4 - Groundwater Contour Map. Field data sheets have been included as Appendix B.

Of the nine monitor wells sampled (MW-9R, MW-14R, MW-20 through MW-25 and VMW-2) in association with the Rhodes Service Station site, all nine monitor wells sampled had detectable concentrations of lead above the RBSL. One monitoring well (MW-14R) had a detectable concentration of EDB above the RBSL. In addition to having a reported concentration of EDB above the RBSL, MW-14R had detectable concentrations of benzene (2.3 ug/L) and xylenes (1.8 ug/L) present in the sample collected. A detectable concentration of MTBE (8.3 ug/L) was reported in MW-25. All other reported concentrations of contaminates of concern (COC's), with the exception of lead, in the remaining monitor

wells sampled (MW-9R and MW-20 through MW-24) were below the RBSL's or reporting limits.

Refer to Table 3, Table 4 and Figure 5 through Figure 7 for summaries of the analytical results at each location. Field measurement data sheets are enclosed as Appendix B. Copies of soil disposal manifests, ground water manifests and analytical report are included as Appendixes D, E and F respectively.

The results of the sampling indicated that dissolved phase hydrocarbon contaminant levels are present onsite and adjacent properties. However, based on the results of this assessment, the contaminate plume appears to be defined both vertically and horizontally. Please note that monitor wells MW-4 and MW-15 have historically contained free phase product (FPP).

If you should have any questions regarding this correspondence, please contact me at (704) 482-2111.

Sincerely,
Blue Ridge Environmental Services, Inc.

Kenneth A. Pimienta
Geologist

JOSEPH WILLIAM McMURRAY
REGISTERED
No. 2111
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Joseph W. McMurray, PG
S.C. Registration #2111

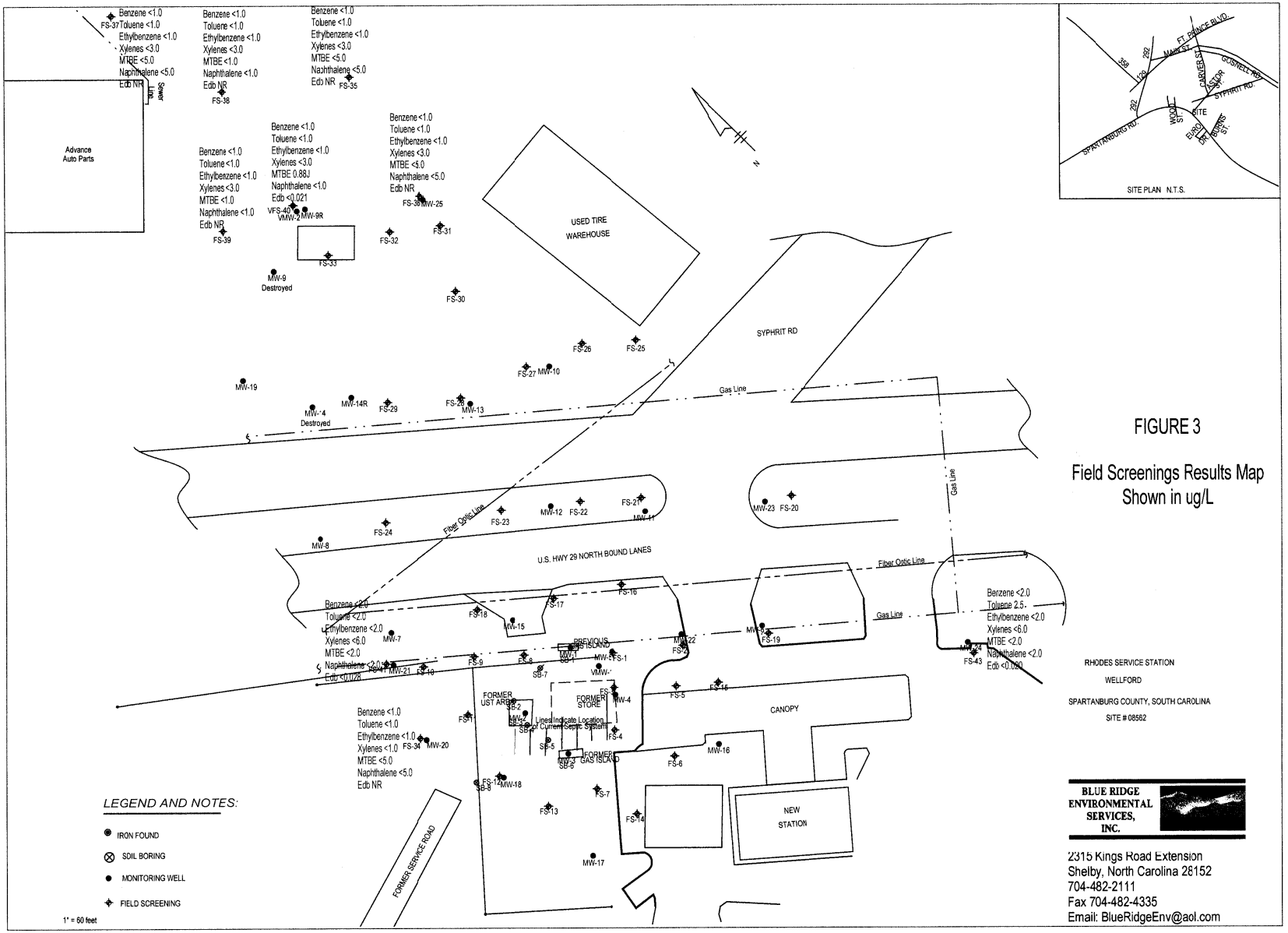
CC: Robert Turner

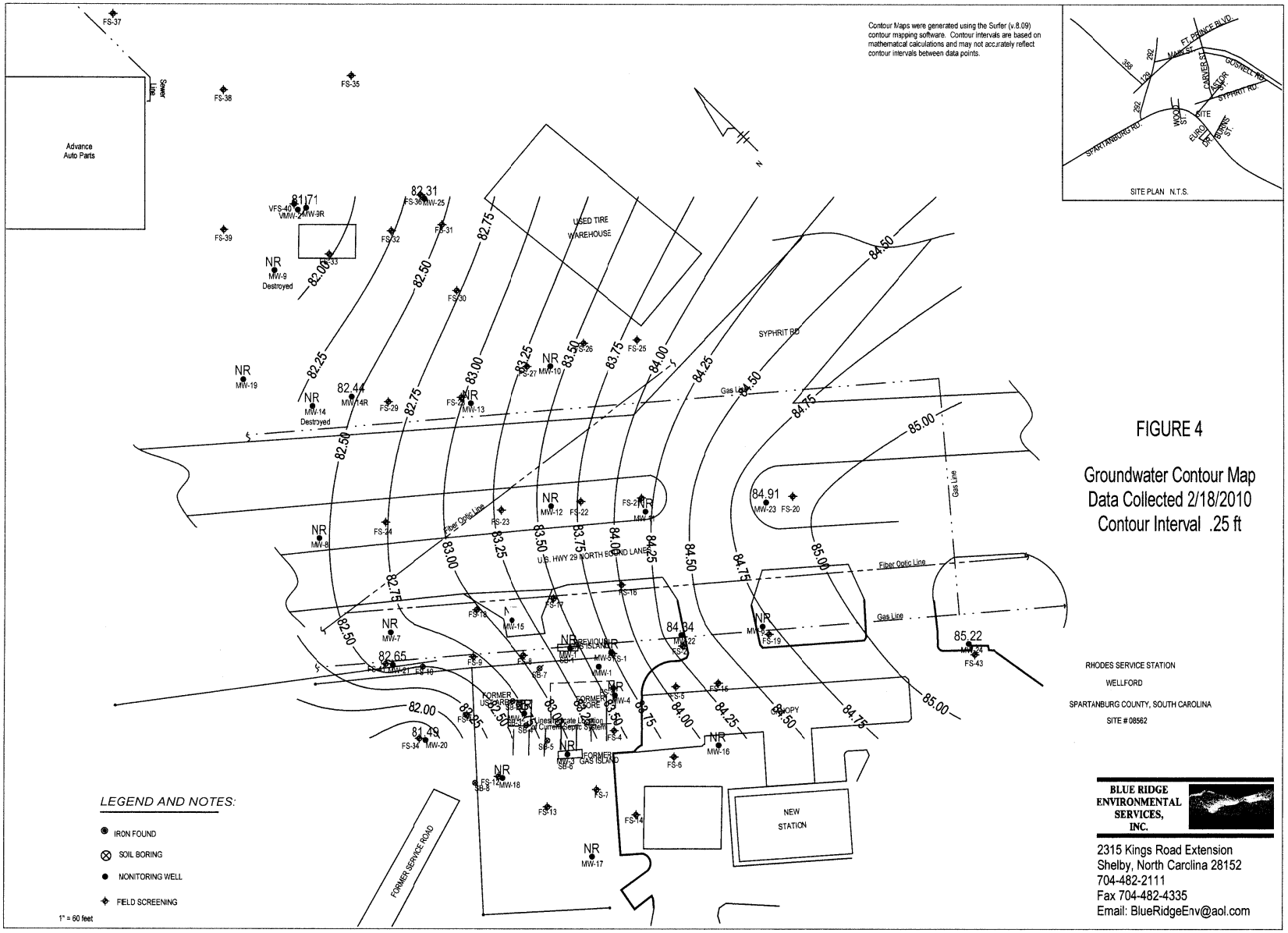
Enclosures

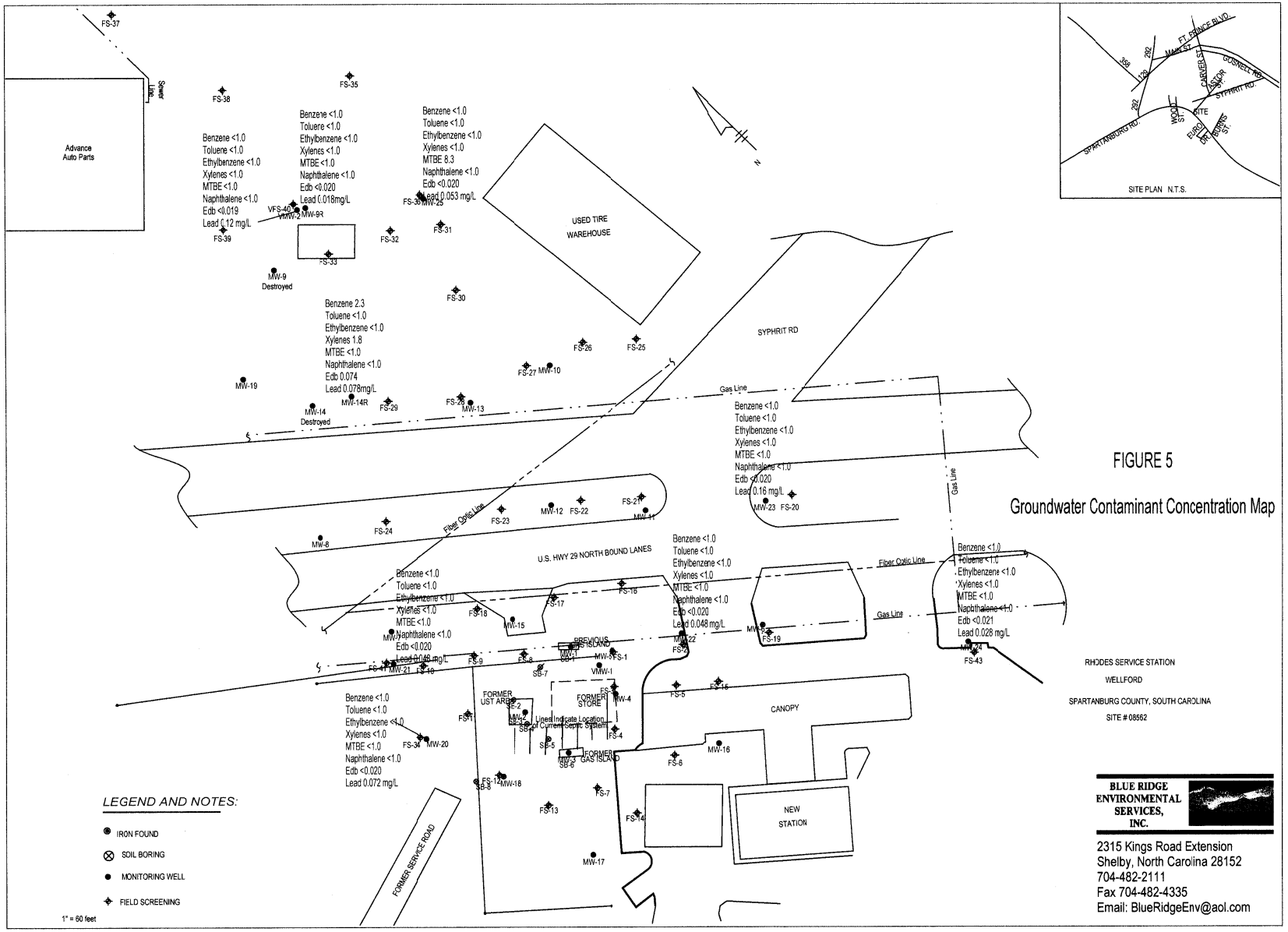
Figures
Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Field Screening Results Map
Figure 4: Groundwater Contour Map
Figure 5: Contaminant Concentration Map
Figure 6: 8 Oxygenates Contaminant Concentration Map
Figure 7: Contaminant Concentration Map (Sampled Sept 2009 – Feb 2010)
Figure 8: Cross Section Location Map
Figure 9: Cross Section Map A-A'
Figure 10: Cross Section Map B-B'

Tables
1. Select Summary of Groundwater Analytical Data (Field Screening Results)
2. Relative Groundwater Elevations
3. Select Summary of Groundwater Laboratory Analytical Results
4. Select Summary of Groundwater Laboratory Analytical Results (Eight Oxygenates)

Appendixes
A. Boring Logs
B. Field Data Sheets
C. Well Construction Records
D. Disposal Manifest (Soil)
E. Disposal Manifest (Groundwater)
F. Analytical Reports


Benzene <1.0
Toluene <1.0
Ethylbenzene <1.0
Xylenes <3.0
MTBE <5.0
Naphthalene <5.0
Edb NR
FS-37
FS-38
FS-35
Sewer Line
Advance Auto Parts
Benzene <1.0
Toluene <1.0
Ethylbenzene <1.0
Xylenes <3.0
MTBE 0.88J
Naphthalene <1.0
Edb <0.021
VFS-40
VMW-2
MW-9R
FS-39
FS-32
FS-31
FS-33
MW-9
Destroyed
FS-30
Benzene <1.0
Toluene <1.0
Ethylbenzene <1.0
Xylenes <3.0
MTBE <5.0
Naphthalene <5.0
Edb NR
FS-36
MW-25
USED TIRE WAREHOUSE
N
SYPHRIT RD
FS-26
FS-25
FS-27
MW-10
MW-19
MW-4
Destroyed
MW-14R
FS-29
FS-28
MW-13
Gas Line
FS-24
Fiber Optic Line
FS-23
MW-12
FS-22
FS-21
MW-11
MW-8
U.S. HWY 29 NORTH BOUND LANES
MW-23
FS-20
Gas Line
Fiber Optic Line
Benzene <2.0
Toluene <2.0
Ethylbenzene <2.0
Xylenes <6.0
MTBE <2.0
Naphthalene <2.0
Edb <0.028
MW-7
FS-18
MW-15
FS-17
FS-16
MW-21
FS-10
FS-9
FS-8
SB-7
PREVIOUS GAS ISLAND
MW-1
SB-1
MW-S-1
VMW-
MW-22
FS-42
MW-6
FS-19
Gas Line
Benzene <2.0
Toluene 2.5
Ethylbenzene <2.0
Xylenes <6.0
MTBE <2.0
Naphthalene <2.0
Edb <0.090
MW-24
FS-43
FORMER UST AREA
SB-2
MW-2
SB-3
FORMER STORE
MW-4
FS-5
FS-15
CANOPY
Lines Indicate Location of Current Septic System
SB-4
SB-5
FS-4
FS-6
MW-16
FORMER GAS ISLAND
MW-3
SB-6
Benzene <1.0
Toluene <1.0
Ethylbenzene <1.0
Xylenes <1.0
MTBE <5.0
Naphthalene <5.0
Edb NR
FS-1
FS-34
MW-20
FS-12
SB-8
MW-18
FS-7
FS-13
FS-14
NEW STATION
MW-17
FORMER SERVICE ROAD
LEGEND AND NOTES:
IRON FOUND
SOIL BORING
MONITORING WELL
FIELD SCREENING
1" = 60 feet
SITE PLAN N.T.S.
FT. PRINCE BLVD.
MAIN ST.
GOSNELL RD.
CARVER ST.
TAYLOR ST.
SYPHRIT RD.
WOOD ST.
SITE
EURO DR.
BURNS ST.
SPARTANBURG RD.
358
292
L726
FIGURE 3
Field Screenings Results Map
Shown in ug/L
RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562
BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com


Contour Maps were generated using the Surfer (v.8.09) contour mapping software. Contour intervals are based on mathematical calculations and may not accurately reflect contour intervals between data points.
SITE PLAN N.T.S.
FT. PRINCE BLVD.
MAIN ST.
GOSNELL RD.
CARVER ST.
ASTOR DR.
SYPHRIT RD.
MORGAN ST.
SITE
ELROD DR.
ROBBINS ST.
SPARTANBURG RD.
Advance Auto Parts
Sewer Line
USED TIRE WAREHOUSE
SYPHRIT RD
Gas Line
Fiber Optic Line
U.S. HWY 29 NORTH EXPRESS LANES
FORMER GAS ISLAND
FORMER USED TIRE STORE
Underground Storage Tank Location
Current Septic System
FORMER SERVICE ROAD
NEW STATION
LEGEND AND NOTES:
IRON FOUND
SOIL BORING
MONITORING WELL
FIELD SCREENING
1" = 60 feet
FIGURE 4
Groundwater Contour Map
Data Collected 2/18/2010
Contour Interval .25 ft
RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562
BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com



BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

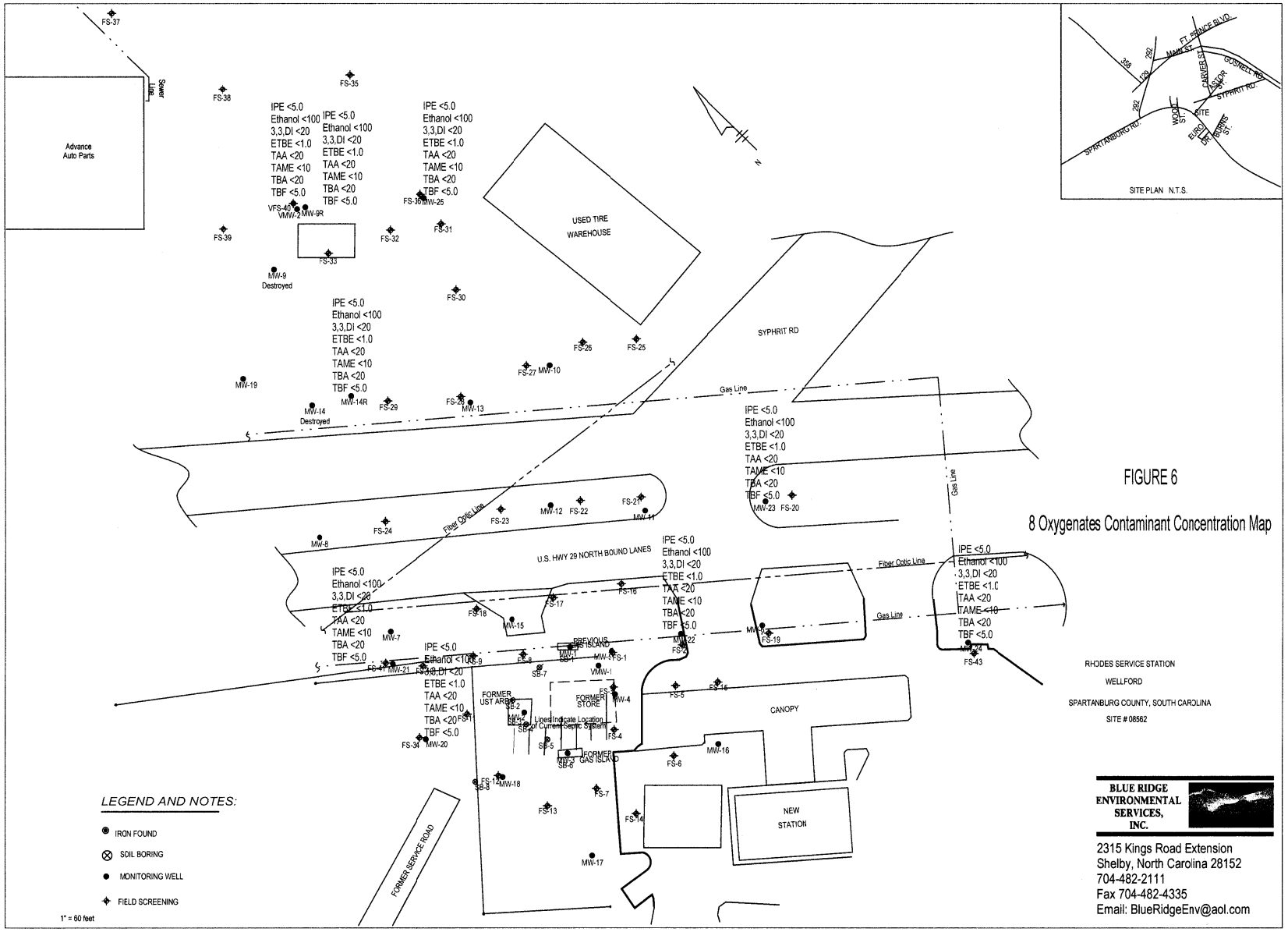


FIGURE 6

8 Oxygenates Contaminant Concentration Map

RHODES SERVICE STATION

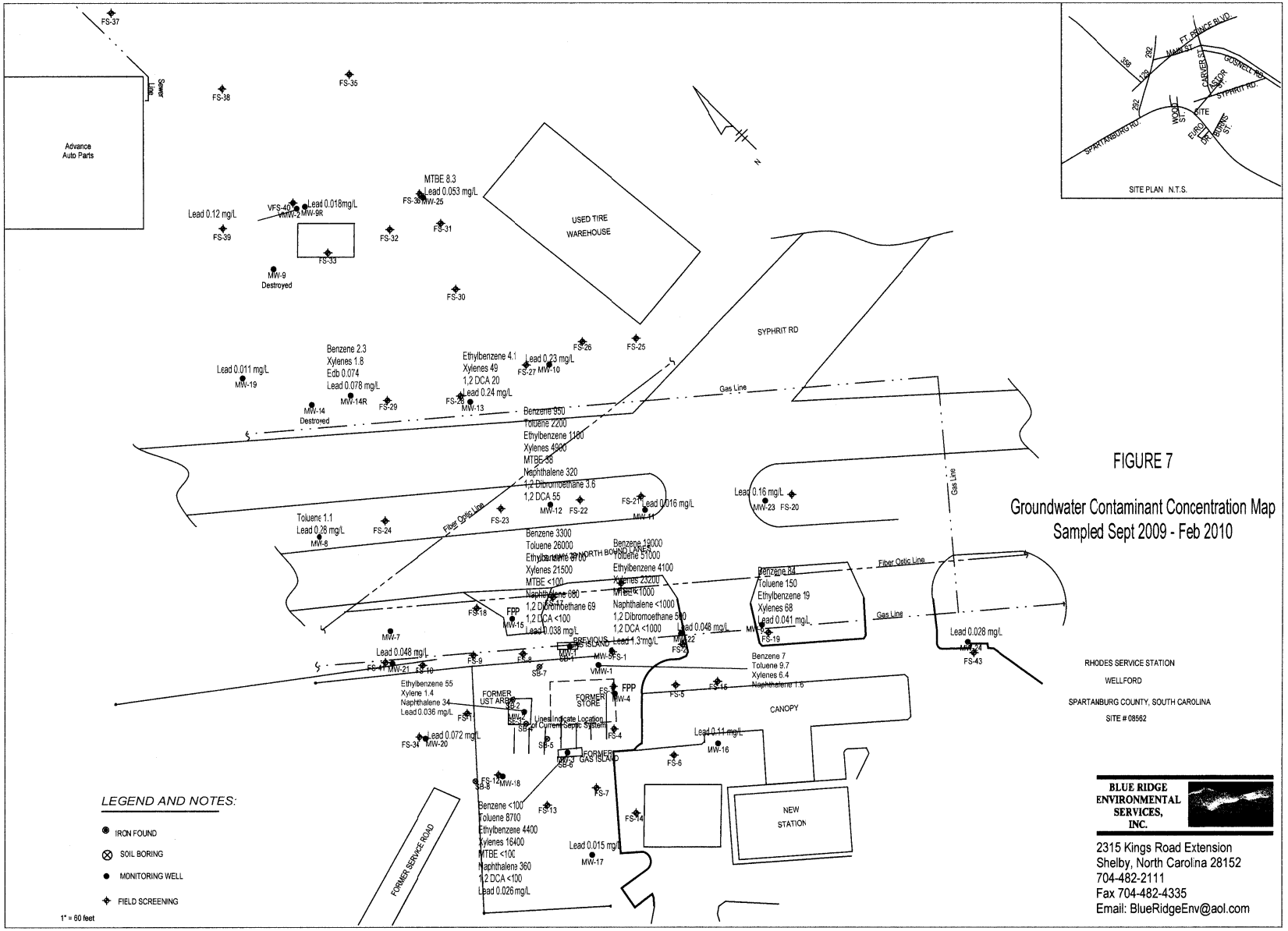
WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com


FS-37
Sewer Line
FS-38
FS-35
Advance Auto Parts
MTBE 8.3
Lead 0.053 mg/L
FS-36
MW-25
Lead 0.12 mg/L
VFS-40
MW-2
Lead 0.018mg/L
MW-9R
FS-39
FS-32
FS-31
FS-33
USED TIRE WAREHOUSE
MW-9
Destroyed
FS-30
SYPHRIT RD
FS-26
FS-25
Lead 0.011 mg/L
MW-19
Benzene 2.3
Xylenes 1.8
Edb 0.074
Lead 0.078 mg/L
MW-14R
Ethylbenzene 4.1
Xylenes 49
1,2 DCA 20
Lead 0.24 mg/L
Lead 0.23 mg/L
FS-27
MW-10
MW-14
Destroyed
FS-29
FS-28
MW-13
Gas Line
Benzene 950
Toluene 2200
Ethylbenzene 1180
Xylenes 4980
MTBE 38
Naphthalene 320
1,2 Dibromoethane 3.6
1,2 DCA 55
FS-22
MW-12
FS-21
Lead 0.016 mg/L
MW-11
Lead 0.16 mg/L
MW-23
FS-20
Gas Line
Toluene 1.1
Lead 0.28 mg/L
MW-8
FS-24
Fiber Optic Line
FS-23
Benzene 3300
Toluene 26000
Ethylbenzene 6700
Xylenes 21500
MTBE <100
Naphthalene 680
1,2 Dibromoethane 69
1,2 DCA <100
Lead 0.038 mg/L
FS-18
FPP
MW-15
FS-17
NORTH BOUND LANE
Benzene 19000
Toluene 51000
Ethylbenzene 4100
Xylenes 23200
MTBE 1000
Naphthalene <1000
1,2 Dibromoethane 580
1,2 DCA <1000
Lead 1.3mg/L
Lead 0.048 mg/L
MW-22
FS-19
Benzene 84
Toluene 150
Ethylbenzene 19
Xylenes 68
Lead 0.041 mg/L
MW-5
Fiber Optic Line
Gas Line
Lead 0.028 mg/L
MW-24
FS-43
MW-7
Lead 0.048 mg/L
FS-9
FS-8
PREVIOUS GAS ISLAND
MW-1
SB-1
MW-6
FS-1
SB-7
VMW-1
FS-10
MW-21
FS-11
Benzene 7
Toluene 9.7
Xylenes 6.4
Naphthalene 1.6
Ethylbenzene 55
Xylene 1.4
Naphthalene 34
Lead 0.036 mg/L
FORMER UST AREA
SB-2
MW-3
SB-3
FORMER STORE
FPP
MW-4
FS-5
FS-16
CANOPY
Lines Indicate Location of Current Septic System
FS-4
FS-11
Lead 0.072 mg/L
FS-34
MW-20
SB-5
FORMER GAS ISLAND
SB-6
Lead 0.11 mg/L
MW-16
FS-6
FS-12
SB-8
MW-18
FS-7
Benzene <100
Toluene 8700
Ethylbenzene 4400
Xylenes 16400
MTBE <100
Naphthalene 360
1,2 DCA <100
Lead 0.026 mg/L
FS-13
FS-14
NEW STATION
Lead 0.015 mg/L
MW-17
FORMER SERVICE ROAD
LEGEND AND NOTES:
IRON FOUND
SOIL BORING
MONITORING WELL
FIELD SCREENING
1" = 60 feet
N
FT. PRINCE BLVD
MAIN ST.
GOSNELL RD.
CARVER ST.
TAYLOR ST.
SYPHRIT RD.
WOOD ST.
SITE
FURO DR.
BURNS ST.
SPARTANBURG RD.
338
292
126
SITE PLAN N.T.S.
FIGURE 7
Groundwater Contaminant Concentration Map
Sampled Sept 2009 - Feb 2010
RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562
BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

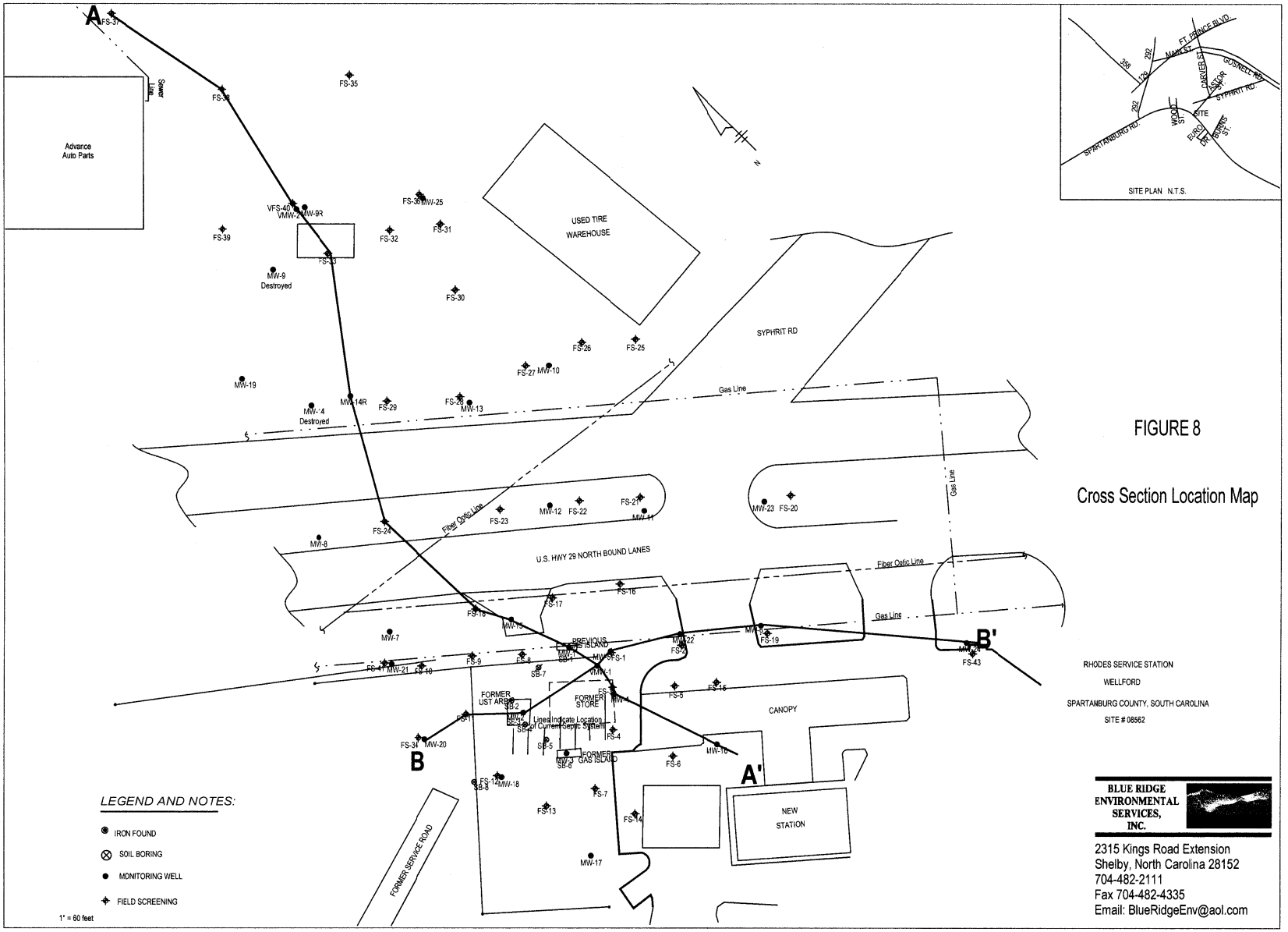


FIGURE 8

Cross Section Location Map

RHODES SERVICE STATION

WELLFORD

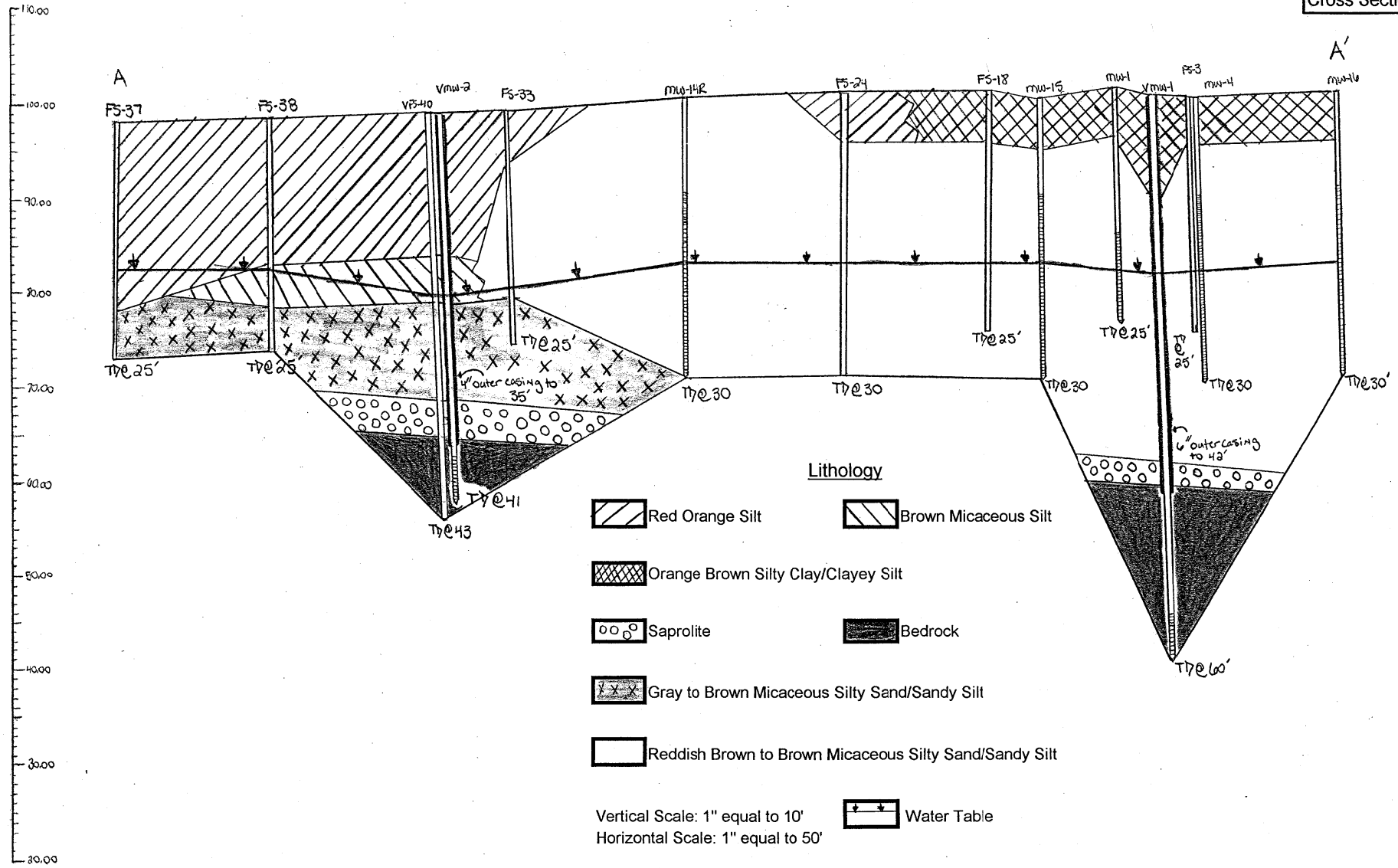
SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

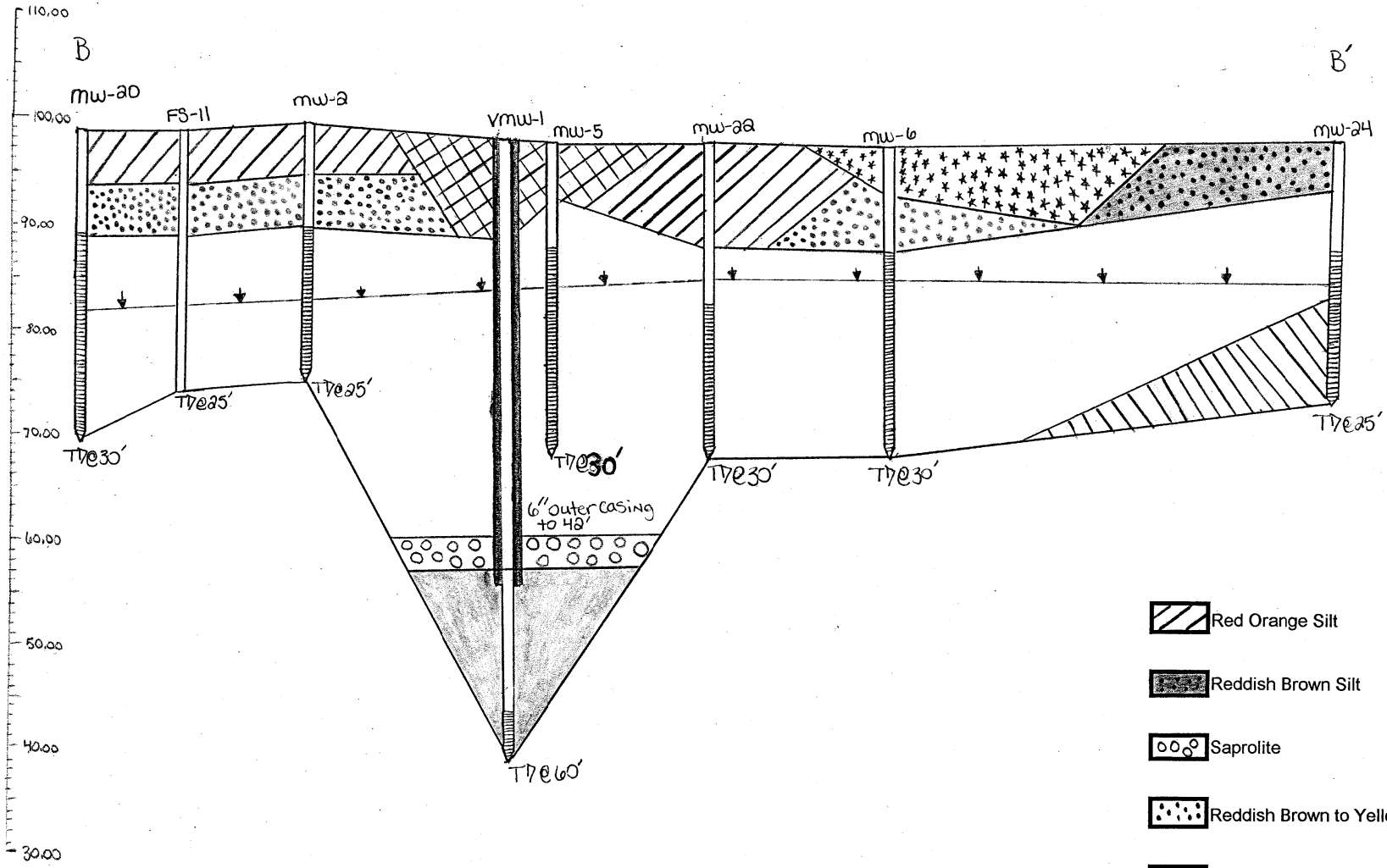
BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

Rhodes Service Station
UST Permit #: 08562
Figure 9
Cross Section Map A-A'



Rhodes Service Station
UST Permit #: 08562
Figure 10
Cross Section Map B-B'



Lithology

- Red Orange Silt
- Reddish Brown Sandy Cla
- Reddish Brown Silt
- Brown Micaceous Silt
- Saprolite
- Bedrock
- Reddish Brown to Yellow Brown Silty Sand
- Reddish Brown to Brown Micaceous Silty Sand/Sandy Silt
- Orange Brown Silty Clay/Clayey Silt
- Water Table

VERTICAL SCALE: 1" equal to 10'
HORIZONTAL SCALE: 1" equal to 30'

Rhodes Service Station

Table 1
Select Summary of Groundwater Analytical Data (Field Screening Results)*

		EPA METHOD 8260B or EPA METHOD 602						EPA METHOD 8011
Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB
FS-34**	12/17/09	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	NR
FS-35**	12/17/09	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR
FS-36**	12/17/09	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR
FS-37**	12/22/09	<1.0	<1.0	<1.0	<3.0	<5.0	<5.0	NR
FS-38	12/17/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NR
FS-39**	12/21/09	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NR
VFS-40	12/22/09	<1.0	<1.0	<1.0	<3.0	0.88J	<1.0	<0.021
FS-41	01/14/10	<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<0.028
FS-42	01/14/10	NR	NR	NR	NR	NR	NR	NR
FS-43	01/14/10	<2.0	2.5	<2.0	<6.0	<2.0	<2.0	<0.020

Results reported in ug/L
*Keyed to Figure 3
** Analyzed by EPA Method 602
NR: Analysis not requested.

TABLE 2
Relative Groundwater Elevations
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

		Date:	1/21/00	4/23/01	11/20/01	6/20/02	9/15/09	2/18/10
Well No.	**MW-1**	TD: 25'	Screen Interval: 15-25'				10/28/09*	
TOC Elevation			100.00	100.00	100.00	100.00	100.00	100.00
Groundwater Level			17.91	17.49	19.41	18.12	18.03	**NR**
Groundwater Elevation (ft.)			***82.09***	***82.51***	***80.59***	***81.88***	***81.97***	
Well No.	**MW-2**	TD: 25'	Screen Interval: 15-25'					
TOC Elevation			99.04	99.04	99.04	99.04	99.04	99.04
Groundwater Level			18.02	17.92	20.03	18.82	18.85	**NR**
Groundwater Elevation (ft.)			***81.020***	***81.120***	***79.01***	***80.22***	***80.19***	
Well No.	**MW-3**	TD: 25'	Screen Interval: 15-25'					
TOC Elevation			99.57	99.57	99.57	99.57	99.57	99.57
Groundwater Level			17.45	18.16	19.77	18.09	18.11*	**NR**
Groundwater Elevation (ft.)			***82.12***	***81.41***	***79.8***	***81.48***	***81.46***	
Well No.	**MW-4**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				98.65	98.65	98.65	98.65	98.65
Groundwater Level				FPP	FPP	FPP	FPP	**NR**
Groundwater Elevation (ft.)								
Well No.	**MW-5**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				97.85	97.85	97.85	97.85	97.85
Groundwater Level				17.2	19.12	17.84	17.64	**NR**
Groundwater Elevation (ft.)				***80.65***	***78.73***	***80.01***	***80.21***	
Well No.	**MW-6**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				97.87	97.87	97.87	97.87	97.87
Groundwater Level				16.93	18.82	17.59	17.22	**NR**
Groundwater Elevation (ft.)				***80.94***	***79.05***	***80.28***	***80.65***	
Well No.	**MW-7**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				97.26	97.26	97.26	97.26	97.26
Groundwater Level				17.86	19.5	18.18	**NL**	**NL**
Groundwater Elevation (ft.)				***79.4***	***77.76***	***79.08***	NA	
Well No.	**MW-8**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				99.33	99.33	99.33	99.33	99.33
Groundwater Level				20.92	22.1	19.72	20.58	**NR**
Groundwater Elevation (ft.)				***78.41***	***77.23***	***79.61***	***78.75***	
Well No.	**MW-9**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				98.7	98.7	98.7	98.7	98.7
Groundwater Level				20.46	**NL**	21.69	**NL**	**NR**
Groundwater Elevation (ft.)				***78.24***	NA	***77.01***	NA	
Well No.	**MW-9R**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation								98.43
Groundwater Level								16.72
Groundwater Elevation (ft.)								***81.71***
Well No.	**MW-10**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				98.71	98.71	98.71	98.71	98.71
Groundwater Level				19.04	21.03	19.68	19.55	**NR**
Groundwater Elevation (ft.)				***79.67***	***77.68***	***79.03***	***79.16***	
Well No.	**MW-11**	TD: 27'	Screen Interval: 7-27'					
TOC Elevation				98.49	98.49	98.49	98.49	98.49
Groundwater Level				18.39	19.98	18.7	18.5	**NR**
Groundwater Elevation (ft.)				***80.1***	***78.51***	***79.79***	***79.99***	
Well No.	**MW-12**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				97.75	97.75	97.75	97.75	97.75
Groundwater Level				18.21	19.47	18.19	18.01	**NR**
Groundwater Elevation (ft.)				***79.54***	***78.28***	***79.56***	***79.74***	

TABLE 2
Relative Groundwater Elevations
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

		Date:	1/21/00	4/23/01	11/20/01	6/20/02	9/15/09	2/18/10
Well No.	**MW-13**	TD: 35'	Screen Interval: 15-35'					
TOC Elevation				99.3	99.3	99.3	99.3	99.3
Groundwater Level				19.94	21.85		20.74*	**NR**
Groundwater Elevation (ft.)				***79.36***	***77.45***		***78.56***	
Well No.	**MW-14**	TD: 35'	Screen Interval: 15-35'					
TOC Elevation				100.29	100.29	100.29	100.29	100.29
Groundwater Level				21.54	23.42		**NL**	**NL**
Groundwater Elevation (ft.)				***78.75***	***76.87***		NA	
Well No.	**MW-14R**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation								99.96
Groundwater Level								17.52
Groundwater Elevation (ft.)								***82.44***
Well No.	**MW-15**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				97.79	97.79	97.79	97.79	97.79
Groundwater Level				FPP	FPP	FPP	FPP	**NR**
Groundwater Elevation (ft.)								
Well No.	**MW-16**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				98.68	98.68	98.68	98.68	98.68
Groundwater Level				17.87	19.7	18.5	18.19	**NR**
Groundwater Elevation (ft.)				***80.81***	***78.98***	***80.18***	***80.49***	
Well No.	**MW-17**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				98.89	98.89	98.89	98.89	98.89
Groundwater Level				18.29	20.05	18.83	18.75	**NR**
Groundwater Elevation (ft.)				***80.6***	***78.84***	***80.06***	***80.14***	
Well No.	**MW-18**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation				98.43	98.43	98.43	98.43	98.43
Groundwater Level				18.12	19.88	18.61	18.94*	**NR**
Groundwater Elevation (ft.)				***80.31***	***78.55***	***79.82***	***79.49***	
Well No.	**MW-19**	TD: 35'	Screen Interval: 15-35'					
TOC Elevation								
Groundwater Level						21.86	22.18*	**NR**
Groundwater Elevation (ft.)							NA	
Well No.	**MW-20**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation								98.68
Groundwater Level								17.19
Groundwater Elevation (ft.)								***81.49***
Well No.	**MW-21**	TD: 30'	Screen Interval: 15-30'					
TOC Elevation								99.39
Groundwater Level								16.74
Groundwater Elevation (ft.)								***82.65***
Well No.	**MW-22**	TD: 30'	Screen Interval: 15-30'					
TOC Elevation								97.69
Groundwater Level								13.35
Groundwater Elevation (ft.)								***84.34***
Well No.	**MW-23**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation								97.33
Groundwater Level								12.42
Groundwater Elevation (ft.)								***84.91***
Well No.	**MW-24**	TD: 25'	Screen Interval: 10-25'					
TOC Elevation								98.13
Groundwater Level								12.91
Groundwater Elevation (ft.)								***85.22***

Rhodes Service Station

Table 4*
Select Summary of Groundwater Laboratory Analytical Results
(Eight Oxygenates)

		EPA METHOD 8260B (ug/L)							
Sample ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
MW-1	09/15/09	10.6U	1,190U	111U	5.18U	1,080	6.96U	82.4U	7.14U
MW-2	09/15/09	0.529U	59.9U	5.56U	0.259U	176	0.348U	4.12U	0.357U
MW-3	10/28/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-5	09/15/09	321	1,190U	111U	5.18U	7,950	6.96U	82.4U	7.14U
MW-6	09/15/09	2.65U	298U	27.8U	1.3U	1,110	1.74U	20.6U	1.79U
MW-8	09/15/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-9R	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
MW-10	09/15/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-11	09/15/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-12	09/15/09	25.6	298U	27.8	1.3U	812	1.74U	20.6U	1.79U
MW-13	10/28/09	3.69J	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-14R	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
MW-16	09/15/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-17	09/15/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-18	10/28/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-19	10/28/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
MW-20	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0

NOTES:
Oxygentate results from the previous sampling events are summarized in Table 4.
*Keyed to Figure 6
Results reported in ug/L
IPE: Diisopropyl ether
ETBA: 3,3-Dimethyl-1-butanol
ETBE: Ethyl-tert-butyl ether
TAA: tert-Amyl alchol
TAME: tert-Amyl methyl ether
TBA: tert-butyl alcohol
TBF: tert-Butyl formate

"J": Indicates an estimated value.
"U": Indicates the compound was analyzed for but not detected.

Rhodes Service Station

Table 4*
Select Summary of Groundwater Laboratory Analytical Results
(Eight Oxygenates)

		EPA METHOD 8260B (ug/L)							
Sample ID	Date	IPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
MW-21	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
MW-22	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
MW-23	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
MW-24	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
MW-25	03/11/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0
VMW-1	09/15/09	0.529U	59.5U	5.56U	0.259U	15.6U	0.348U	4.12U	0.357U
VMW-2	02/18/10	<5.0	<100.0	<20.0	<1.0	<20.0	<10.0	<20.0	<5.0

NOTES:
Oxygentate results from the previous sampling events are summarized in Table 4.
*Keyed to Figure 6
Results reported in ug/L
IPE: Diisopropyl ether
ETBA: 3,3-Dimethyl-1-butanol
ETBE: Ethyl-tert-butyl ether
TAA: tert-Amyl alchol
TAME: tert-Amyl methyl ether
TBA: tert-butyl alcohol
TBF: tert-Butyl formate

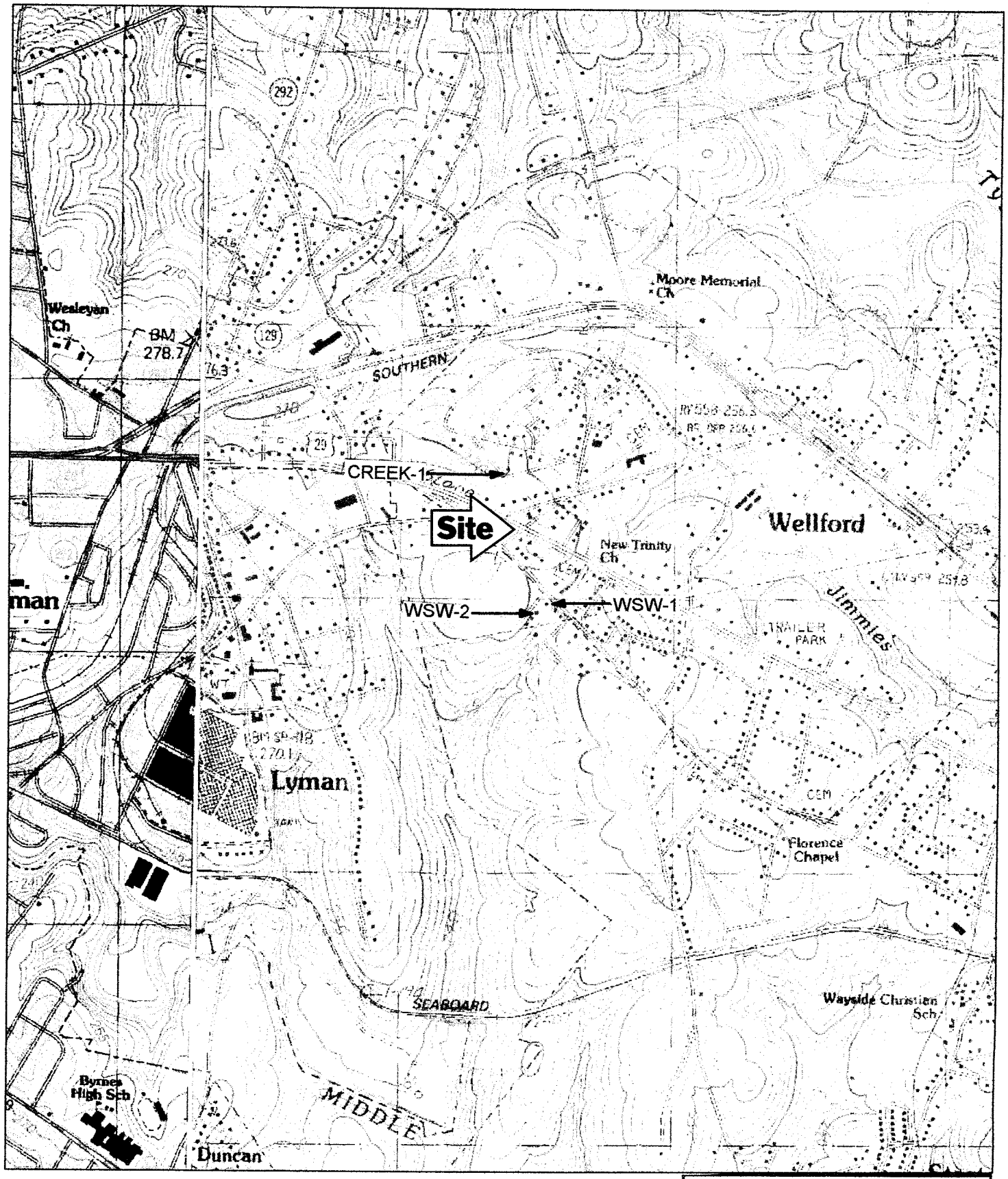
"J": Indicates an estimated value.
"U": Indicates the compound was analyzed for but not detected.

TABLE 2
Relative Groundwater Elevations

Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

		Date:	1/21/00	4/23/01	11/20/01	6/20/02	9/15/09	2/18/10
Well No.	**MW-25**	TD: 30'	Screen Interval: 10-30'					
TOC Elevation								98.06
Groundwater Level								15.75
Groundwater Elevation (ft.)								***82.31***
Well No.	**VMW-1**	TD: 60'	Screen Interval: 55-60'					
TOC Elevation				98.32	98.32	98.32	98.32	98.32
Groundwater Level					25.96	20.48	19.28	**NR**
Groundwater Elevation (ft.)				***98.32***	***72.36***	***77.84***	***79.04***	
Well No.	**VMW-2**	TD: 41'	Screen Interval: 36-41'					
TOC Elevation								98.32
Groundwater Level								19.38
Groundwater Elevation (ft.)								***78.94***

Notes:	**FPP - Free Phase Product**
	NL - Not Located
	*** - Obtained on 10/28/09**
	NA - Not Applicable
	NR - Not Reported



Rhodes Service Station
Figure 1
Site Location Map

Appendix A

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

TEST BORING FIELD LOG

PROJECT: Rhodes Service Station PROJECT NO.: 08562 BORING: FS-37, FS-39 + VFS-40

DATE STARTED: 12/21/09 DATE COMPLETED: 12/22/09 DRILLER: JM SURFACE ELEV.: _____

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0	20	Red orange Friable Silt 12/22/09							
20	25	Brown to gray Friable micaceous sandy silt TD 25' FS-37							
0	15	Reddish Brown Friable silt 12/22/09							
15	20	light brown Friable micaceous silt							
20	35	Gray to brown micaceous silty Sand							
35	43	Saprolite @ 43' Auger Refusal TD 43' VFS-40							
0	15	Reddish Brown friable silt 12/21/09							
15	20	light brown friable micaceous silt							
20	25	Gray to brown micaceous silty Sand TD 25' FS-39							

METHOD OF DRILLING (Check One)

a. AUGER _____ SIZE _____

b. WASH _____ WATER _____ MUD _____

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. _____ SIZE _____

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER _____

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ _____ DATE _____ TIME _____

@ _____ DATE _____ TIME _____

CAVE-IN DEPTH: @ _____ DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

TEST BORING FIELD LOG

PROJECT: Rhodes Service Station PROJECT NO.: 08562 BORING: FS-41 & FS-43

DATE STARTED: 1/14/10 DATE COMPLETED: 1/14/10 DRILLER: JM SURFACE ELEV.: _____

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0	5	Red orange Friable silt							
5	15	Reddish Brown to brown micaceous Silt							
15	20	yellow to brown micaceous Sandy Silt							
20	25	Brown micaceous silt							
		TD 25' FS-41							
0	5	Reddish brown Friable Silt							
5	15	Reddish Brown to brown friable micaceous Sandy silt							
15	25	Brown micaceous silt							
		TD-25' FS-43							

METHOD OF DRILLING (Check One)

a. AUGER _____ SIZE _____

b. WASH _____ WATER _____ MUD _____

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. _____ SIZE _____

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER _____

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ _____ DATE _____ TIME _____

@ _____ DATE _____ TIME _____

CAVE-IN DEPTH: @ _____ DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

FORM F01

Appendix B

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

2/18/10

UST Permit # 03562 Well # MW-9R

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 16.72 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 13.28 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.16 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.4	5.3	5.4					
Specific Cond. (mS/cm)	97	88	93					
Water Temp (°C)	17.8	18.0	18.3					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	2.6	1.5	3.1					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

2/18/10

UST Permit # 03562

Well # MW-14R

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓
serial no. _____
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter ✓
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 17.52 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 12.48 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.03 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	4.9	5.0	4.9					
Specific Cond. (mS/cm)	114	113	110					
Water Temp (°C)	13.5	15.4	16.1					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	2.9	3.3	2.7					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 03562 Well # MW-20 2/18/10

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance
pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 17.19 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 12.81 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.09 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.4	5.6	5.3					
Specific Cond. (mS/cm)	175	217	190					
Water Temp (°C)	16.0	15.3	15.1					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	2.6	3.4	2.9					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

2/18/10

UST Permit # 03562 Well # MW-21

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 16.74 ft. Below Ground Surface
Screen interval __ ft. to 15-30 ft.

Length of Water Column (LWC=TWD-DGW) 13.26 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.16 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.4	4.7	4.9					
Specific Cond. (mS/cm)	44	33	33					
Water Temp (°C)	15.6	15.9	15.2					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	2.6	3.1	4.2					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

2/18/10

UST Permit # 03562 Well # MW-22

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 13.35 ft. Below Ground Surface
Screen interval __ ft. to 15-30 ft.

Length of Water Column (LWC=TWD-DGW) 16.65 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.71 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	3.0	5.75					
Time (military)								
pH (s.u.)	5.8	5.7	5.8					
Specific Cond. (mS/cm)	114	156	134					
Water Temp (°C)	16.1	15.7	16.4					
Turbidity								
OVA Reading								
Salinity								
Dissolved Oxygen	2.7	3.4	3.4					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 03562 Well # MW-23 2/18/10

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ serial no. _____
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter ✓ serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 12.42 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 17.58 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.87 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	3.25	6.25					
Time (military)								
pH (s.u.)	5.1	5.2	4.9					
Specific Cond. (mS/cm)	44	36	35					
Water Temp (°C)	15.4	17.2	17.4					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.1	4.2	3.5					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 03562 Well # MW-24 2/18/10

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 25 ft. Below Ground Surface
Depth to Groundwater 12.91 ft. Below Ground Surface
Screen interval __ ft. to 10-25 ft.

Length of Water Column (LWC=TWD-DGW) 12.09 ft.

1 Csg Volume (LWC*C) ____ X .163 = 1.97 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.25	4.25					
Time (military)								
pH (s.u.)	6.6	6.4	6.2					
Specific Cond. (mS/cm)	39	45	40					
Water Temp (°C)	16.4	14.6	14.4					
Turbidity*	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.6	4.1	3.7					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 03562 Well # MW-25 2/18/10

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 15.75 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.
Length of Water Column (LWC=TWD-DGW) 14.25 ft.

1 Csg Volume (LWC*C) _____ X .163 = 2.32 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.75	5.25					
Time (military)								
pH (s.u.)	5.2	5.0	4.9					
Specific Cond. (mS/cm)	83	74	74					
Water Temp (°C)	16.2	16.3	16.4					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.1	3.4	4.1					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

2/18/10

UST Permit # 03562

Well # VMW-2

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 41 ft. Below Ground Surface
Depth to Groundwater 19.38 ft. Below Ground Surface
Screen interval __ ft. to 36-41 ft.

Length of Water Column (LWC=TWD-DGW) 21.62 ft.

1 Csg Volume (LWC*C) _____ X .163 = 3.52 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	4.0	7.75					
Time (military)								
pH (s.u.)	5.3	5.5	5.4					
Specific Cond. (mS/cm)	120	129	113					
Water Temp (°C)	15.7	17.3	18.2					
Turbidity*	1	1	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.6	2.7	3.1					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks Sunny 44°F

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-9R

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 16.72 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 13.28 ft.

1 Csg Volume (LWC*C) ____ X ____ = 2.16 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.2	5.3	5.3					
Specific Cond. (mS/cm)	85	101	92					
Water Temp (°C)	16.29	17.1	17.3					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.1	4.2	3.6					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-9R Resample
water level obtained on 2/18/10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-14R

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 17.52 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 12.48 ft.

1 Csg Volume (LWC*C) ____ X ___ = 2.03 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.81	5.3	5.3					
Specific Cond. (mS/cm)	170	213	191					
Water Temp (°C)	16.0	15.3	15.1					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.4	2.9	3.7					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-14R Resample
water level obtained on 2/18/10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-20

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 17.19 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 12.81 ft.

1 Csg Volume (LWC*C) ____ X ___ = 2.09 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.3	5.3	5.5					
Specific Cond. (mS/cm)	190	133	172					
Water Temp (°C)	15.6	15.4	15.4					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	4.2	4.3	3.7					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW- Resample

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-21

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 16.74 ft. Below Ground Surface
Screen interval __ ft. to 15-30 ft.

Length of Water Column (LWC=TWD-DGW) 13.26 ft.

1 Csg Volume (LWC*C) ____ X ___ = 2.16 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.50	4.75					
Time (military)								
pH (s.u.)	5.3	5.4	5.4					
Specific Cond. (mS/cm)	26	39	43					
Water Temp (°C)	15.9	16.3	16.3					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	2.9	2.6	3.4					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-21 Resample
water level obtained on 2/18/10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-22

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 13.35 ft. Below Ground Surface
Screen interval __ ft. to 15-30 ft.

Length of Water Column (LWC=TWD-DGW) 16.65 ft.

1 Csg Volume (LWC*C) ____ X ____ = 2.71 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	3.0	5.75					
Time (military)								
pH (s.u.)	5.6	5.6	5.7					
Specific Cond. (mS/cm)	139	146	156					
Water Temp (°C)	16.3	16.1	15.7					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.4	4.1	2.9					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-22 Resample
water level obtained on 2/18/10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-23

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * (D/2)²
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 12.42 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 17.58 ft.

1 Csg Volume (LWC*C) ____ X ____ = 2.87 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling ____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	3.25	6.25					
Time (military)								
pH (s.u.)	5.2	5.1	5.0					
Specific Cond. (mS/cm)	49	36	51					
Water Temp (°C)	17.0	16.9	16.7					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	4.0	3.7	4.3					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-23 Resample
water level obtained on 2/18/10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-24

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 25 ft. Below Ground Surface
Depth to Groundwater 12.91 ft. Below Ground Surface
Screen interval __ ft. to 10-25 ft.

Length of Water Column (LWC=TWD-DGW) 12.09 ft.

1 Csg Volume (LWC*C) ____ X ___ = 1.97 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.25	4.25					
Time (military)								
pH (s.u.)	6.2	6.2	6.1					
Specific Cond. (mS/cm)	46	54	40					
Water Temp (°C)	15.6	15.21	15.4					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	3.1	3.4	4.2					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-24 Resample
water level obtained on 2/18/10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

3/11/10 Resample

UST Permit # 08562 Well # MW-25

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____
Quality Assurance
pH Meter ✓ Conductivity Meter ✓
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or _____ Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 30 ft. Below Ground Surface
Depth to Groundwater 15.75 ft. Below Ground Surface
Screen interval __ ft. to 10-30 ft.

Length of Water Column (LWC=TWD-DGW) 14.25 ft.

1 Csg Volume (LWC*C) ____ X ___ = 2.32 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling ____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)	.25	2.75	5.25					
Time (military)								
pH (s.u.)	5.2	5.3	5.2					
Specific Cond. (mS/cm)	71	165	79					
Water Temp (°C)	17.3	16.9	16.8					
Turbidity	1	2	2					
OVA Reading								
Salinity								
Dissolved Oxygen	4.3	4.6	3.9					

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks MW-25 Resample
water level obtained on 2/18/10

Appendix C

D H E C
PROMOTE. PROTECT. PROSPER.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82° W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 8 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish brown friable silt	15	15
light brown friable micaceous silt	5	20
Grey to brown micaceous silty sand/sandy silt	10	30
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: MW-9R

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30 ft. Date Started: 1/14/10 Date Completed: 1/14/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20
Set Between: 10 ft. and 30 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 17 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: ☑ A ☐ B ☐ C ☐ D (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4325

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: _____ Date: 1/14/10
Well Driller #734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE. PROTECT. PROSPER

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57' 13.94" Longitude: 82°W 6' 46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 8 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish brown friable micaceous sandy silt	15	15
Brown friable micaceous sandy silt	15	30

*Indicate Water Bearing Zones (Use a 2nd sheet if needed)

5. REMARKS: MW-14R

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30 ft. Date Started: 1/14/10 Date Completed: 1/14/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
20 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20
Set Between: 10 ft. and 30 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 18 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 8 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4325

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: _____ (Well Driller) Date: 1/14/10
#734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Robert (last) Turner (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY:
Name: Rhodes Service Station Spartanburg
Street Address: 410 Spartanburg Hwy S
City: Welford Zip:
Latitude: 34°45'13.94 Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 8 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Red orange friable silt	5	5
Reddish brown to yellow	5	10
brown silty sand		
Reddish brown to brown micaceous sandy silt	20 *	30

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS: MW-20

6. TYPE: ☐ Mud Rotary ☐ Dug ☐ Cable tool ☐ Jetted ☐ Air Rotary ☐ Other ☑ Bored ☐ Driven

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30 ft. Date Started: 1/14/10 Date Completed: 1/14/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☑
Surface 0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.015 slot Length: _____
Set Between: 10 ft. and 30 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
N/A ft. after N/A hrs. Pumping N/A G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: N/A

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: N/A ft. N/A direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: N/A ☑ Not installed
Mfr. Name: N/A Model No.: N/A
H.P. N/A Volts N/A Length of drop pipe N/A ft. Capacity N/A gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph mcmurray CERT. NO.:
Address: (Print) 2315 Kings Road Ext. Shelby, NC 28152
Level: ☑ A ☐ B ☐ C ☐ D (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4335

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: _____ (Well Driller) Date: 1/14/10
#734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 13 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Red orange friable silt	10	10
light brown micaceous	10	20
sandy silt		
Reddish brown to brown	10	30
micaceous silt		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: MW-21

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30 ft. Date Started: 2/17/10 Date Completed: 2/17/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 15 ft. depth
in. to ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 15
Set Between: 15 ft. and 30 ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 17 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: N/A

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 13 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: Not installed ☑
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4325

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: Well Driller #734 Date: 2/17/10
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE. PROTECT. PROSPER.

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 13 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Red orange friable silt	10	10
Reddish Brown to brown micaceous Sandy Silt	5	15
Reddish brown micaceous Sandy silt hard @ 23'24	15*	15

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS: MW-22

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 2/17/10
30 ft. Date Completed: 2/17/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 15 ft. depth
_____ in. to _____ ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 15'
Set Between: 15 ft. and 30 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 13 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road East Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4535

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: _____ (Well Driller) Date: 2/17/10
#734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 8 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Red orange friable silt	10	10
Reddish brown micaceous	20	30
Sandy silt/silty sand		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: MW-23

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30 ft. Date Started: 2/17/10 Date Completed: 2/17/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☑
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: _____
Set Between: 10 ft. and 30 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 13 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date Installed: _____ Not Installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-2111

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: Joseph W McMurray Date: 2/17/10
Well Driller #734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 8 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish brown friable silt	5	5
Reddish brown to brown friable micaceous sandy silt	10	15
Brown micaceous silt	10	25
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: MW-24

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 25 ft. Date Started: 2/18/10 Date Completed: 2/18/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
in. to ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 15
Set Between: 10 ft. and 25 ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 16 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 25 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: ☑ Not installed
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4325

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: Well Driller #734 Date: 2/18/10
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 8 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish Brown Friable Silt	15	15
light brown Friable micaceous Silt	5	20
Brown micaceous silty Sand	10	30
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: MW-25

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed): 30 ft. Date Started: 1/14/10 Date Completed: 1/14/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN: Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 20
Set Between: 10 ft. and 30 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 16 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 30 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4325

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: _____ (Well Driller) Date: 1/14/10
#734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE. PROTECT. PROSPER.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Turner (last) Robert (first)
Address: 655 Perrin Drive
City: Spartanburg State: SC Zip: 29307
Telephone: Work: N/A Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Rhodes Service Station
Street Address: 410 Spartanburg hwys
City: Wellford Zip: 29385
Latitude: 34°N 57'13.94" Longitude: 82°W 6'46.82"

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from 0 ft. to 33 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish brown friable silt	15	15
light brown friable micaceous silt	5	20
Gray to brown micaceous silty Sand/Sandy silt	10	30
Saprolite	15	35
Bedrock	6	41
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: VMW-2

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 08562

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 2/17/10
41 ft. Date Completed: 2/18/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 36 ft. depth
4 in. to 35 ft. depth
Height: Above ☑ Below ☐
Surface 0 ft.
Weight N/A lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length:
Set Between: 36 ft. and 41 ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 20 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 33 ft. to 41 ft.
Effective size #2 Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 33 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type N/A
Well Disinfected ☐ Yes ☐ No Type: N/A Amount: N/A

18. PUMP: Date installed: Not installed ☑
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Joseph McMurray CERT. NO.: 734
Address: (Print) 2315 Kings Road Ext Shelby NC 28152
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: (704) 482-2111 Fax No.: (704) 482-4328

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: Joseph W McMurray Date: 2/18/10
Well Driller
#734
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Appendix D

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089
Phone 704-434-0075 • Fax 704-434-9533

PO # 16957

Non-Hazardous Waste Manifest # 35420

Date 2-23-2010 Load Number 1

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Pine Ridge Environmental

Contact: Joe Whitney Phone: 704 482 2111 Fax: _____

GENERATOR: Rhodes Service Station

Address: 4/0 Spartanburg Hwy Spartanburg County: SC

Contact: BRES Phone: _____

WASTE ORIGINATION POINT: Complete Address: SAME AS ABOVE

Class & Type of Contaminate in soil UST - Petro

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

GENERATORS CERTIFICATION OF WASTE CONSTITUENTS: In lieu of submitting analytical data (methods 8240 and 8270) verifying that the waste in question does not contain organic constituents other than those which would normally appear in analysis of virgin petroleum product residue, I am submitting this Certificate of Waste Constituents. I certify that I am familiar with the source of contamination of the soil and further certify the source, to the best of my knowledge, contains no contaminants other than that listed above.

Generators Signature: _____ Date: 2-23-2010

TRANSPORTER: Blue Ridge Environmental

Contact: _____ Phone: _____

As the carrier, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured, and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Carrier Signature: _____ Date: 2-23-2010

TRUCK #: 001 TAG #: _____ VOLUME: (1 drum)

TRUCK DRIVER SIGNATURE: _____ DATE: 2-23-2010

DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina.

Facility Signature: _____ Date: 2/23/10

Signature: _____ Date: 2/23/10

Company Name ESI Title: _____

White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

Appendix E

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E 3 Q G

Manifest Document No.: 0 1 4 2 3

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Service Station
410 Spartanburg Hwy South
Wellford, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc

6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

A. State Transporter's ID

B. Transporter 1 Phone: (864) 488-9111

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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307

10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1

E. State Facility's ID

F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON/DOT NON/RCRA Regulated Materials (Contains Water) (1x15) (001536)	1	D F	0 0 0 2 5	P
b.	0			
c.	0			
d.	0			

G. Additional Descriptions for Materials Listed Above
a) L/-

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact : David Hitchens 864-488-9111, cell - 864-590-4648
job# 6345 PO#16952

GENERATOR

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: Matthew Hoge — Signature — Date: Month 2 Day 12 Year 2010

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Matthew Hoge — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

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: Kim Garrett — Signature — Date: Month 2 Day 18 Year 10

NON-HAZARDOUS WASTE

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Book

PRISM LABORATORIES, INC.

Case Narrative

Date: 01/08/10
Company: Blue Ridge Environmental Services
Contact: Ken Pimienta
Address: 2315 Kings Road Extension
Shelby, NC 28152

Client Project ID: Rhodes Service Station
Prism COC Group No: G1209668
Collection Date(s): 12/17/09 thru 12/22/09
Lab Submittal Date(s): 12/23/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 11 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones
Signature: Robbi A. Jones
Review Date: 01/08/10

Project Manager: Angela D. Overcash
Signature: Robbi Jones for A. Overcash
Approval Date: 01/08/10

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

449 Springbrook Road, P.O. Box 240543, Charlotte NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/529-0409

Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-34
Prism Sample ID: 266861
COC Group: G1209668
Time Collected: 12/17/09 14:00
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Screen for Purgeable Aromatics by GC-PID									
Benzene (Estimated)	BRL	µg/L	1.0	0.090	1	602 Screen	12/30/09 21:55	erussell	Q46944
Ethylbenzene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/30/09 21:55	erussell	Q46944
Isopropyl ether (IPE-Estimated)	BRL	µg/L	5.0	0.041	1	602 Screen	12/30/09 21:55	erussell	Q46944
m,p-Xylenes (Estimated)	BRL	µg/L	2.0	0.43	1	602 Screen	12/30/09 21:55	erussell	Q46944
Methyl t-butyl ether (MTBE-Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/30/09 21:55	erussell	Q46944
Naphthalene (Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/30/09 21:55	erussell	Q46944
o-Xylene (Estimated)	BRL	µg/L	1.0	0.29	1	602 Screen	12/30/09 21:55	erussell	Q46944
Toluene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/30/09 21:55	erussell	Q46944
Total xylenes	BRL	µg/L	3.0	0.72	1	602 Screen	12/30/09 21:55	erussell	Q46944

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: VFS-40
Prism Sample ID: 266862
COC Group: G1209668
Time Collected: 12/22/09 16:00
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.021	0.0058	1	8011	01/05/10 12:39	jvogel	Q47021
Sample Preparation:			32.74 mL /		2 mL	8011	01/05/10 8:20	jvogel	P26415

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	89	70 - 130

Volatile Organic Compounds by GC/MS									
Benzene	BRL	µg/L	1.0	0.072	1	8260B	12/29/09 20:00	lwitry	Q46899
Ethylbenzene	BRL	µg/L	1.0	0.067	1	8260B	12/29/09 20:00	lwitry	Q46899
m,p-Xylenes	BRL	µg/L	2.0	0.081	1	8260B	12/29/09 20:00	lwitry	Q46899
Methyl t-butyl ether (MTBE)	0.88 J	µg/L	1.0	0.070	1	8260B	12/29/09 20:00	lwitry	Q46899
Naphthalene	BRL	µg/L	1.0	0.098	1	8260B	12/29/09 20:00	lwitry	Q46899
o-Xylene	BRL	µg/L	1.0	0.046	1	8260B	12/29/09 20:00	lwitry	Q46899
Toluene	BRL	µg/L	1.0	0.042	1	8260B	12/29/09 20:00	lwitry	Q46899

Surrogate	% Recovery	Control Limits
Toluene-d8	90	77 - 123
Dibromofluoromethane	97	75 - 129
Bromofluorobenzene	93	80 - 124

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NC Certification No. 402
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NC Drinking Water Cert. No. 37735

Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: VFS-40
Prism Sample ID: 266862
COC Group: G1209668
Time Collected: 12/22/09 16:00
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-38
Prism Sample ID: 266863
COC Group: G1209668
Time Collected: 12/17/09 14:10
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Benzene	BRL	µg/L	1.0	0.072	1	8260B	12/29/09 19:33	lwitry	Q46899
Ethylbenzene	BRL	µg/L	1.0	0.067	1	8260B	12/29/09 19:33	lwitry	Q46899
m,p-Xylenes	BRL	µg/L	2.0	0.081	1	8260B	12/29/09 19:33	lwitry	Q46899
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.070	1	8260B	12/29/09 19:33	lwitry	Q46899
Naphthalene	BRL	µg/L	1.0	0.098	1	8260B	12/29/09 19:33	lwitry	Q46899
o-Xylene	BRL	µg/L	1.0	0.046	1	8260B	12/29/09 19:33	lwitry	Q46899
Toluene	BRL	µg/L	1.0	0.042	1	8260B	12/29/09 19:33	lwitry	Q46899

Surrogate	% Recovery	Control Limits
Toluene-d8	95	77 - 123
Dibromofluoromethane	101	75 - 129
Bromofluorobenzene	97	80 - 124

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-35
Prism Sample ID: 266864
COC Group: G1209668
Time Collected: 12/17/09 14:30
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Screen for Purgeable Aromatics by GC-PID									
Benzene (Estimated)	BRL	µg/L	1.0	0.090	1	602 Screen	12/30/09 22:42	erussell	Q46944
Ethylbenzene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/30/09 22:42	erussell	Q46944
Isopropyl ether (IPE-Estimated)	BRL	µg/L	5.0	0.041	1	602 Screen	12/30/09 22:42	erussell	Q46944
m,p-Xylenes (Estimated)	BRL	µg/L	2.0	0.43	1	602 Screen	12/30/09 22:42	erussell	Q46944
Methyl t-butyl ether (MTBE-Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/30/09 22:42	erussell	Q46944
Naphthalene (Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/30/09 22:42	erussell	Q46944
o-Xylene (Estimated)	BRL	µg/L	1.0	0.29	1	602 Screen	12/30/09 22:42	erussell	Q46944
Toluene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/30/09 22:42	erussell	Q46944
Total xylenes	BRL	µg/L	3.0	0.72	1	602 Screen	12/30/09 22:42	erussell	Q46944

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-36
Prism Sample ID: 266865
COC Group: G1209668
Time Collected: 12/17/09 15:11
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Screen for Purgeable Aromatics by GC-PID									
Benzene (Estimated)	BRL	µg/L	1.0	0.090	1	602 Screen	12/30/09 23:29	crussell	Q46944
Ethylbenzene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/30/09 23:29	crussell	Q46944
Isopropyl ether (IPE-Estimated)	BRL	µg/L	5.0	0.041	1	602 Screen	12/30/09 23:29	crussell	Q46944
m,p-Xylenes (Estimated)	BRL	µg/L	2.0	0.43	1	602 Screen	12/30/09 23:29	crussell	Q46944
Methyl t-butyl ether (MTBE-Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/30/09 23:29	crussell	Q46944
Naphthalene (Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/30/09 23:29	crussell	Q46944
o-Xylene (Estimated)	BRL	µg/L	1.0	0.29	1	602 Screen	12/30/09 23:29	crussell	Q46944
Toluene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/30/09 23:29	crussell	Q46944
Total xylenes	BRL	µg/L	3.0	0.72	1	602 Screen	12/30/09 23:29	crussell	Q46944

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-37
Prism Sample ID: 266866
COC Group: G1209668
Time Collected: 12/22/09 15:00
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Screen for Purgeable Aromatics by GC-PID									
Benzene (Estimated)	BRL	µg/L	1.0	0.090	1	602 Screen	12/31/09 0:16	erussell	Q46944
Ethylbenzene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/31/09 0:16	erussell	Q46944
Isopropyl ether (IPE-Estimated)	BRL	µg/L	5.0	0.041	1	602 Screen	12/31/09 0:16	erussell	Q46944
m,p-Xylenes (Estimated)	BRL	µg/L	2.0	0.43	1	602 Screen	12/31/09 0:16	erussell	Q46944
Methyl t-butyl ether (MTBE-Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/31/09 0:16	erussell	Q46944
Naphthalene (Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/31/09 0:16	erussell	Q46944
o-Xylene (Estimated)	BRL	µg/L	1.0	0.29	1	602 Screen	12/31/09 0:16	erussell	Q46944
Toluene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/31/09 0:16	erussell	Q46944
Total xylenes	BRL	µg/L	3.0	0.72	1	602 Screen	12/31/09 0:16	erussell	Q46944

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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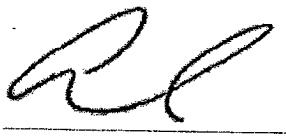

Angela D. Overcash, V.P. Laboratory Services

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

01/08/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-39
Prism Sample ID: 266867
COC Group: G1209668
Time Collected: 12/21/09 16:00
Time Submitted: 12/23/09 13:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Screen for Purgeable Aromatics by GC-PID									
Benzene (Estimated)	BRL	µg/L	1.0	0.090	1	602 Screen	12/31/09 1:02	erussell	Q46944
Ethylbenzene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/31/09 1:02	erussell	Q46944
Isopropyl ether (IPE-Estimated)	BRL	µg/L	5.0	0.041	1	602 Screen	12/31/09 1:02	erussell	Q46944
m,p-Xylenes (Estimated)	BRL	µg/L	2.0	0.43	1	602 Screen	12/31/09 1:02	erussell	Q46944
Methyl t-butyl ether (MTBE-Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/31/09 1:02	erussell	Q46944
Naphthalene (Estimated)	BRL	µg/L	5.0	0.28	1	602 Screen	12/31/09 1:02	erussell	Q46944
o-Xylene (Estimated)	BRL	µg/L	1.0	0.29	1	602 Screen	12/31/09 1:02	erussell	Q46944
Toluene (Estimated)	BRL	µg/L	1.0	0.13	1	602 Screen	12/31/09 1:02	erussell	Q46944
Total xylenes	BRL	µg/L	3.0	0.72	1	602 Screen	12/31/09 1:02	erussell	Q46944

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Drinking Water Cert. No. 37735

Level II QC Report

1/8/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G1209668
Date/Time Submitted: 12/23/09 13:10

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Benzene	ND	1	<0.5	µg/L	Q46899
Ethylbenzene	ND	1	<0.5	µg/L	Q46899
m,p-Xylenes	ND	2	<1	µg/L	Q46899
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q46899
Naphthalene	ND	1	<0.5	µg/L	Q46899
o-Xylene	ND	1	<0.5	µg/L	Q46899
Toluene	ND	1	<0.5	µg/L	Q46899

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Benzene	52.7	50	µg/L	105	77-128	Q46899
Ethylbenzene	52.43	50	µg/L	105	80-127	Q46899
m,p-Xylenes	107.48	100	µg/L	107	77-133	Q46899
Methyl t-butyl ether (MTBE)	52.7	50	µg/L	105	68-135	Q46899
Naphthalene	51.91	50	µg/L	104	64-136	Q46899
o-Xylene	54.4	50	µg/L	109	78-128	Q46899
Toluene	51.6	50	µg/L	103	76-131	Q46899

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
266862	Benzene	491.4	500	µg/L	98	75-130	Q46899
	Ethylbenzene	469.4	500	µg/L	94	78-130	Q46899
	m,p-Xylenes	958.9	1000	µg/L	96	72-136	Q46899
	Methyl t-butyl ether (MTBE)	477.9	500	µg/L	95	74-130	Q46899
	Naphthalene	483.5	500	µg/L	97	69-129	Q46899
	o-Xylene	489.5	500	µg/L	98	75-131	Q46899
	Toluene	481	500	µg/L	96	73-134	Q46899

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
266862	Benzene	464.1	500	µg/L	93	75-130	6	0 - 15	Q46899
	Ethylbenzene	449.7	500	µg/L	90	78-130	4	0 - 15	Q46899
	m,p-Xylenes	919.4	1000	µg/L	92	72-136	4	0 - 18	Q46899
	Methyl t-butyl ether (MTBE)	480.4	500	µg/L	96	74-130	1	0 - 15	Q46899
	Naphthalene	478	500	µg/L	96	69-129	1	0 - 16	Q46899
	o-Xylene	471.3	500	µg/L	94	75-131	4	0 - 18	Q46899
	Toluene	453.9	500	µg/L	91	73-134	6	0 - 17	Q46899

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Level II QC Report

1/8/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G1209668
Date/Time Submitted: 12/23/09 13:10

EDB and DBCP by Microextraction/GC-ECD, method 8011

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dibromoethane (EDB)	ND	0.02	<0.01	µg/L	Q47021

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dibromoethane (EDB)	0.315	0.25	µg/L	126	60-140	Q47021

#-See Case Narrative

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BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

South Carolina

704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #: 08562

STF CODE:

P.O.#: 16919

LAB: Prism

SAMPLERS: Ken Pimienta

PROJECT MANAGER:

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	8260 Field (See Zack per quote)	BTEX Naph Screening	8260 MTBE	8011 EDB			REMARKS
FS-34	12-17-09	1400		✓	Groundwater Sample		3	X						266861
VFS-40	12-22-09	1600		✓			6		X	X				266862
FS-38	12-17-09	1410		✓			3		X	X	Cancelled insufficient volume nag/prism			limited VOCs 266863
FS-35	12-17-09	1430		✓			3	X						266864
FS-36	12-17-09	1511		✓			3	X						266865
FS-37	12-22-09	1500		✓			3	X						266866
FS-39	12-21-09	1600		✓			3	X						266867

G1209668

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Ken Pimienta	12-23-09	1201	[signature]	12/23/09	1205
[signature]	12/23/09	1310	[signature]	12/23/09	1310

X:\MISC\CHAIN1.vcd 1/31

PRISM LABORATORIES, INC.

Case Narrative

Date: 02/02/10
Company: Blue Ridge Environmental Services
Contact: Ken Pimienta
Address: 2315 Kings Road Extension
Shelby, NC 28152

Client Project ID: Rhodes Service Station
Prism COC Group No: G0110382
Collection Date(s): 01/14/10
Lab Submittal Date(s): 01/18/10

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 7 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones
Signature: Robbi A. Jones
Review Date: 02/02/10

Project Manager: Angela D. Overcash
Signature:
Approval Date: 02/02/10

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

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Laboratory Report

02/02/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-41
Prism Sample ID: 268409
COC Group: G0110382
Time Collected: 01/14/10 15:50
Time Submitted: 01/18/10 12:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.028	0.0076	1	8011	01/25/10 20:39	jvogel	Q47467
Sample Preparation:			24.98 mL /		2 mL	8011	01/25/10 15:00	jvogel	P26576

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	114	70 - 130

Volatile Organic Compounds by GC/MS									
Benzene	BRL	µg/L	2.0	0.14	2	8260B	01/25/10 15:31	erussell	Q47390
Ethylbenzene	BRL	µg/L	2.0	0.13	2	8260B	01/25/10 15:31	erussell	Q47390
m,p-Xylenes	BRL	µg/L	4.0	0.16	2	8260B	01/25/10 15:31	erussell	Q47390
Methyl t-butyl ether (MTBE)	BRL	µg/L	2.0	0.14	2	8260B	01/25/10 15:31	erussell	Q47390
Naphthalene	BRL	µg/L	2.0	0.20	2	8260B	01/25/10 15:31	erussell	Q47390
o-Xylene	BRL	µg/L	2.0	0.092	2	8260B	01/25/10 15:31	erussell	Q47390
Toluene	3.0	µg/L	2.0	0.085	2	8260B	01/25/10 15:31	erussell	Q47390

RLs for this sample were increased due to insufficient sample volume. Vial contained large amount of solids.

Surrogate	% Recovery	Control Limits
Toluene-d8	92	77 - 123
Dibromofluoromethane	92	75 - 129
Bromofluorobenzene	95	80 - 124

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Full Service Analytical & Environmental Solutions

Laboratory Report

02/02/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-41
Prism Sample ID: 268409
COC Group: G0110382
Time Collected: 01/14/10 15:50
Time Submitted: 01/18/10 12:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

02/02/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-43
Prism Sample ID: 268410
COC Group: G0110382
Time Collected: 01/14/10 16:18
Time Submitted: 01/18/10 12:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
EDB and DBCP by Microextraction/GC-ECD									
1,2-Dibromoethane (EDB)	BRL	µg/L	0.020	0.0054	1	8011	01/25/10 21:07	jvogel	Q47467
Sample Preparation:				34.91 mL /	2 mL	8011	01/25/10 15:00	jvogel	P26576

Surrogate	% Recovery	Control Limits
Bromofluorobenzene	120	70 - 130

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
Benzene	BRL	µg/L	2.0	0.14	2	8260B	01/25/10 16:01	erussell	Q47390
Ethylbenzene	BRL	µg/L	2.0	0.13	2	8260B	01/25/10 16:01	erussell	Q47390
m,p-Xylenes	BRL	µg/L	4.0	0.16	2	8260B	01/25/10 16:01	erussell	Q47390
Methyl t-butyl ether (MTBE)	BRL	µg/L	2.0	0.14	2	8260B	01/25/10 16:01	erussell	Q47390
Naphthalene	BRL	µg/L	2.0	0.20	2	8260B	01/25/10 16:01	erussell	Q47390
o-Xylene	BRL	µg/L	2.0	0.092	2	8260B	01/25/10 16:01	erussell	Q47390
Toluene	2.5	µg/L	2.0	0.085	2	8260B	01/25/10 16:01	erussell	Q47390

RLs for this sample were increased due to insufficient sample volume. Vial contained large amount of solids.

Surrogate	% Recovery	Control Limits
Toluene-d8	98	77 - 123
Dibromofluoromethane	97	75 - 129
Bromofluorobenzene	101	80 - 124

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Laboratory Report

02/02/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station
Sample Matrix: Water

Client Sample ID: FS-43
Prism Sample ID: 268410
COC Group: G0110382
Time Collected: 01/14/10 16:18
Time Submitted: 01/18/10 12:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit
Values are reported down to the reporting limits only. No J-flags applied.
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

2/2/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0110382
Date/Time Submitted: 1/18/10 12:05

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Benzene	ND	1	<0.5	µg/L	Q47390
Ethylbenzene	ND	1	<0.5	µg/L	Q47390
m,p-Xylenes	ND	2	<1	µg/L	Q47390
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q47390
Naphthalene	ND	1	<0.5	µg/L	Q47390
o-Xylene	ND	1	<0.5	µg/L	Q47390
Toluene	ND	1	<0.5	µg/L	Q47390

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Benzene	58.39	50	µg/L	117	70-141	Q47390
Ethylbenzene	58.64	50	µg/L	117	80-139	Q47390
m,p-Xylenes	116.23	100	µg/L	116	82-136	Q47390
Methyl t-butyl ether (MTBE)	53.76	50	µg/L	108	70-130	Q47390
Naphthalene	54.28	50	µg/L	109	40-136	Q47390
o-Xylene	55.54	50	µg/L	111	73-134	Q47390
Toluene	57.82	50	µg/L	116	78-130	Q47390

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
268583	Benzene	206.48	200	µg/L	103	62-129	Q47390
	Ethylbenzene	200.44	200	µg/L	100	58-133	Q47390
	m,p-Xylenes	398.96	400	µg/L	100	59-137	Q47390
	Methyl t-butyl ether (MTBE)	197.44	200	µg/L	99	70-130	Q47390
	Naphthalene	183.28	200	µg/L	92	54-127	Q47390
	o-Xylene	191.48	200	µg/L	96	65-129	Q47390
	Toluene	203.52	200	µg/L	102	60-131	Q47390

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
268583	Benzene	212.36	200	µg/L	106	62-129	3	0 - 19	Q47390
	Ethylbenzene	204.76	200	µg/L	102	58-133	2	0 - 22	Q47390
	m,p-Xylenes	408.8	400	µg/L	102	59-137	2	0 - 20	Q47390
	Methyl t-butyl ether (MTBE)	204.56	200	µg/L	102	70-130	4	0 - 20	Q47390
	Naphthalene	196.84	200	µg/L	98	54-127	7	0 - 24	Q47390
	o-Xylene	196.36	200	µg/L	98	65-129	3	0 - 21	Q47390
	Toluene	209.2	200	µg/L	105	60-131	3	0 - 21	Q47390

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NC Certification No. 402
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Level II QC Report

2/2/10

Blue Ridge Environmental Services
Attn: Ken Pimienta
2315 Kings Road Extension
Shelby, NC 28152

Project ID: Rhodes Service Station

COC Group Number: G0110382
Date/Time Submitted: 1/18/10 12:05

EDB and DBCP by Microextraction/GC-ECD, method 8011

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2-Dibromoethane (EDB)	ND	0.02	<0.01	µg/L	Q47467

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2-Dibromoethane (EDB)	0.268	0.25	µg/L	107	60-140	Q47467

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
268658 1,2-Dibromoethane (EDB)	0.314	0.25	µg/L	126	60-140	Q47467

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
268658 1,2-Dibromoethane (EDB)	0.324	0.25	µg/L	130	60-140	3	0 - 20	Q47467

#-See Case Narrative

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BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

South Carolina

704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 16930

LAB: Prism

SAMPLERS: Ken Pimienta

PROJECT MANAGER:

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX, Naph MTBE 8260	8011 EDB					REMARKS
FS-41	1/14/10	1550		✓	groundwater		3	X	X					limited VOAs 268409
FS-43	1/14/10	1618		✓	Sample		3	X	X					limited voa's 268410

G0110382

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Ken Pimienta	1/18/10	1206	[signature]	1/18/10	1205
RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:

X:\MISC\CHAIN1.vcd 1/31

16930

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Blue Ridge Environmental Services
2315 Kings Road Ext.
Shelby, NC 28152
Attention: Joe McMurray

Project Name: **Rhodes Service Station**

Lot Number: **LB20008**
Date Completed: **02/24/2010**

Sabrina Boles
Sabrina E Boles
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Blue Ridge Environmental Services
Lot Number: LB20008
Project Name: Rhodes Service Station
Project Number:

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.

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.

Sample Summary
Blue Ridge Environmental Services
Lot Number: LB20008
Project Name: Rhodes Service Station
Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-20	Aqueous	02/18/2010 1250	02/19/2010
002	MW-21	Aqueous	02/18/2010 1311	02/19/2010
003	MW-22	Aqueous	02/18/2010 1329	02/19/2010
004	MW-23	Aqueous	02/18/2010 1230	02/19/2010
005	MW-24	Aqueous	02/18/2010 1215	02/19/2010
006	MW-25	Aqueous	02/18/2010 1347	02/19/2010
007	MW-9R	Aqueous	02/18/2010 1410	02/19/2010
008	MW-14R	Aqueous	02/18/2010 1431	02/19/2010
009	VMW-2	Aqueous	02/18/2010 1450	02/19/2010

(9 samples)

Executive Summary
Blue Ridge Environmental Services
Lot Number: LB20008
Project Name: Rhodes Service Station
Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
009	VMW-2	Aqueous	Lead	6010C	0.12		mg/L	6

(1 detection)

Client: Blue Ridge Environmental Services
Description: VMW-2
Date Sampled: 02/18/2010 1450
Date Received: 02/19/2010
Laboratory ID: LB20008-009
Matrix: Aqueous
Project Name: Rhodes Service Station
Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/24/2010 0058	DLB		28153

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		117	70-130
Bromofluorobenzene		111	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
1	5030B	8260B	1	02/24/2010 0058	DLB		28153

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		117	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/23/2010 1448	PMS	02/22/2010 1910	28046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services
Description: VMW-2
Date Sampled: 02/18/2010 1450
Date Received: 02/19/2010

Laboratory ID: LB20008-009
Matrix: Aqueous
Project Name: Rhodes Service Station
Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/23/2010 1448	PMS	02/22/2010 1910	28046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/23/2010 1310	CDF	02/22/2010 1600	28012

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.12		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: LQ28153-001
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		1	1.0	ug/L	02/23/2010 2248
1,2-Dichloroethane	ND		1	1.0	ug/L	02/23/2010 2248
Ethylbenzene	ND		1	1.0	ug/L	02/23/2010 2248
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	ug/L	02/23/2010 2248
Naphthalene	ND		1	1.0	ug/L	02/23/2010 2248
Toluene	ND		1	1.0	ug/L	02/23/2010 2248
Xylenes (total)	ND		1	1.0	ug/L	02/23/2010 2248

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: LQ28153-002
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	44		1	88	72-127	02/23/2010 2116
1,2-Dichloroethane	50	40		1	81	59-143	02/23/2010 2116
Ethylbenzene	50	48		1	96	79-132	02/23/2010 2116
Methyl tertiary butyl ether (MTBE)	50	43		1	86	60-140	02/23/2010 2116
Naphthalene	50	47		1	95	62-136	02/23/2010 2116
Toluene	50	47		1	95	75-125	02/23/2010 2116
Xylenes (total)	100	96		1	96	70-130	02/23/2010 2116

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: LQ28153-003
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	46		1	91	3.7	72-127	20	02/23/2010 2139
1,2-Dichloroethane	50	42		1	84	4.3	59-143	20	02/23/2010 2139
Ethylbenzene	50	49		1	98	2.6	79-132	20	02/23/2010 2139
Methyl tertiary butyl ether (MTBE)	50	44		1	88	1.3	60-140	20	02/23/2010 2139
Naphthalene	50	51		1	101	6.7	62-136	20	02/23/2010 2139
Toluene	50	49		1	98	2.9	75-125	20	02/23/2010 2139
Xylenes (total)	100	100		1	100	4.0	70-130	20	02/23/2010 2139

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: LQ28153-001
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	02/23/2010 2248
tert-Amyl methyl ether (TAME)	ND		1	10	ug/L	02/23/2010 2248
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	02/23/2010 2248
Diisopropyl ether (IPE)	ND		1	5.0	ug/L	02/23/2010 2248
3,3-Dimethyl-1-butanol	ND		1	20	ug/L	02/23/2010 2248
Ethanol	ND		1	100	ug/L	02/23/2010 2248
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	02/23/2010 2248
tert-butyl alcohol (TBA)	ND		1	20	ug/L	02/23/2010 2248

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL

N - Recovery is out of criteria
+ - RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: LQ28153-002
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	940		1	94	40-130	02/23/2010 2116
tert-Amyl methyl ether (TAME)	50	47		1	93	40-130	02/23/2010 2116
tert-Butyl formate (TBF)	250	260		1	105	40-130	02/23/2010 2116
Diisopropyl ether (IPE)	50	48		1	97	70-130	02/23/2010 2116
3,3-Dimethyl-1-butanol	1000	1100		1	114	40-130	02/23/2010 2116
Ethanol	5000	5000		1	99	40-130	02/23/2010 2116
Ethyl-tert-butyl ether (ETBE)	50	45		1	91	40-130	02/23/2010 2116
tert-butyl alcohol (TBA)	1000	920		1	92	40-130	02/23/2010 2116

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: LQ28153-003
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	7.9	40-130	20	02/23/2010 2139
tert-Amyl methyl ether (TAME)	50	48		1	96	3.2	40-130	20	02/23/2010 2139
tert-Butyl formate (TBF)	250	270		1	107	2.4	40-130	20	02/23/2010 2139
Diisopropyl ether (IPE)	50	49		1	97	0.67	70-130	20	02/23/2010 2139
3,3-Dimethyl-1-butanol	1000	1200		1	116	2.2	40-130	20	02/23/2010 2139
Ethanol	5000	4700		1	94	5.0	40-130	20	02/23/2010 2139
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	1.5	40-130	20	02/23/2010 2139
tert-butyl alcohol (TBA)	1000	840		1	84	9.2	40-130	20	02/23/2010 2139

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL

N - Recovery is out of criteria
+ - RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: LQ28046-001
Batch: 28046
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/22/2010 1910

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	02/23/2010 0838

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		99	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: LQ28046-002
Batch: 28046
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/22/2010 1910

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.28		1	112	60-140	02/23/2010 0859

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL

N - Recovery is out of criteria
+ - RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCSD

Sample ID: LQ28046-003
Batch: 28046
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/22/2010 1910

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.30		1	121	7.7	60-140	20	02/23/2010 1700

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MB

Sample ID: LQ28012-001
Batch: 28012
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/22/2010 1600

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Lead	ND		1	0.010	mg/L	02/23/2010 1253

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCS

Sample ID: LQ28012-002
Batch: 28012
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/22/2010 1600

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.40		1	101	80-120	02/23/2010 1258

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCSD

Sample ID: LQ28012-003
Batch: 28012
Analytical Method: 6010C

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/22/2010 1600

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.40	0.38		1	96	5.3	80-120	20	02/23/2010 1304

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
704-482-2111
704-482-4335 (FAX)
E-mail: Blueridgeb@aol.com

CHAIN OF CUSTODY

South Carolina

PROJECT NAME/LOCATION: Rhodes Service Station
GROUNDWATER INCIDENT #:
SITE CODE:
P.O.#: 14953
LAB: Shealy

SAMPLERS: Matt Arge
PROJECT MANAGER: Ken Pimenta

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX MTBE 12 Pkg 3 oxygenates EDB	Lead	EDB 8011	LS 20008	REMARKS
mw-20	2/18/10	1250		✓	ground water sample			X	X	X		
mw-21		1311		✓				X	X	X		
mw-22		1329		✓				X	X	X		
mw-23		1230		✓				X	X	X		
mw-24		1215		✓				X	X	X		
mw-25		1347		✓				X	X	X		
mw-9R		1410		✓				X	X	X		
mw-14R		1431		✓				X	X	X		
VMW-2		1450		✓				X	X	X		

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Kenneth Pimenta	2-19-10	1145		2-19-10	1145
RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
	2-19-10	1535			
	2-19-10	1550	GQ Qamar 2/19/10 1550	SAT/Sun T.A.T.	

XEMISOCHAIN: wcg 1/01

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: Blue Ridge Env'l Svcs Cooler Inspected by/date: CC 7/24/10 Lot #: LB20008

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: 1.5 °C / °C / °C / °C / °C / °C / °C / °C / °C / °C

Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: ____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or <48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

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_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) ____ were received with bubbles >6 mm in diameter.

Sample(s) ____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb

Toxicity sample(s) ____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: Date of response:

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Blue Ridge Environmental Services
2315 Kings Road Ext.
Shelby, NC 28152
Attention: Joe McMurray

Project Name: **Rhodes Service Station**

Lot Number: **LB20008**
Date Completed: **03/11/2010**
Date Revised: **03/10/2010**

Sabrina Boles
Sabrina E Boles
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Blue Ridge Environmental Services
Lot Number: LB20008
Project Name: Rhodes Service Station
Project Number:

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.

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.

Sample Summary

Blue Ridge Environmental Services

Lot Number: LB20008

Project Name: Rhodes Service Station

Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-20	Aqueous	02/18/2010 1250	02/19/2010
002	MW-21	Aqueous	02/18/2010 1311	02/19/2010
003	MW-22	Aqueous	02/18/2010 1329	02/19/2010
004	MW-23	Aqueous	02/18/2010 1230	02/19/2010
005	MW-24	Aqueous	02/18/2010 1215	02/19/2010
006	MW-25	Aqueous	02/18/2010 1347	02/19/2010
007	MW-9R	Aqueous	02/18/2010 1410	02/19/2010
008	MW-14R	Aqueous	02/18/2010 1431	02/19/2010
009	VMW-2	Aqueous	02/18/2010 1450	02/19/2010

(9 samples)

Executive Summary

Blue Ridge Environmental Services

Lot Number: LB20008

Project Name: Rhodes Service Station

Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-20	Aqueous	Lead	6010C	0.072		mg/L	5
002	MW-21	Aqueous	Lead	6010C	0.048		mg/L	6
003	MW-22	Aqueous	Lead	6010C	0.048		mg/L	7
004	MW-23	Aqueous	Lead	6010C	0.16		mg/L	8
005	MW-24	Aqueous	Lead	6010C	0.028		mg/L	9
006	MW-25	Aqueous	Lead	6010C	0.053		mg/L	10
007	MW-9R	Aqueous	Lead	6010C	0.018		mg/L	11
008	MW-14R	Aqueous	Lead	6010C	0.078		mg/L	12
009	VMW-2	Aqueous	Lead	6010C	0.12		mg/L	14

(9 detections)

Client: **Blue Ridge Environmental Services**
Laboratory ID: **LB20008-001**
Description: **MW-20**
Matrix: **Aqueous**
Date Sampled: **02/18/2010 1250**
Project Name: **Rhodes Service Station**
Date Received: **02/19/2010**
Project Number:

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 1953	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.072		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LB20008-002**

Description: **MW-21** | Matrix: **Aqueous**

Date Sampled: **02/18/2010 1311** | Project Name: **Rhodes Service Station**

Date Received: **02/19/2010** | Project Number:

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2011	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.048		0.010	mg/L	1

PQL = Practical quantitation limit

ND = Not detected at or above the PQL

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: **Blue Ridge Environmental Services**
Description: **MW-22**
Date Sampled: **02/18/2010 1329**
Date Received: **02/19/2010**

Laboratory ID: **LB20008-003**
Matrix: **Aqueous**
Project Name: **Rhodes Service Station**
Project Number:

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2016	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.048		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LB20008-004**

Description: **MW-23** | Matrix: **Aqueous**

Date Sampled: **02/18/2010 1230** | Project Name: **Rhodes Service Station**

Date Received: **02/19/2010** | Project Number:

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2020	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.16		0.010	mg/L	1

PQL = Practical quantitation limit

ND = Not detected at or above the PQL

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: **Blue Ridge Environmental Services**
Description: **MW-24**
Date Sampled: **02/18/2010 1215**
Date Received: **02/19/2010**
Project Name: **Rhodes Service Station**
Project Number:
Laboratory ID: **LB20008-005**
Matrix: **Aqueous**

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2034	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010C**	**0.028**		**0.010**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services**
Laboratory ID: **LB20008-006**
Description: **MW-25**
Matrix: **Aqueous**
Date Sampled: **02/18/2010 1347**
Project Name: **Rhodes Service Station**
Date Received: **02/19/2010**
Project Number:

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2038	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.053		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

Client: **Blue Ridge Environmental Services**
Description: **MW-9R**
Date Sampled: **02/18/2010 1410**
Date Received: **02/19/2010**
Project Name: **Rhodes Service Station**
Project Number:
Laboratory ID: **LB20008-007**
Matrix: **Aqueous**

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2043	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010C	0.018		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Description: **MW-14R** Matrix: **Aqueous**

Date Sampled: **02/18/2010 1431** Project Name: **Rhodes Service Station**

Date Received: **02/19/2010** Project Number:

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	03/10/2010 2047	CDF	03/10/2010 1400	29082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010C**	**0.078**		**0.010**	**mg/L**	**1**

PQL = Practical quantitation limit

ND = Not detected at or above the PQL

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Description: VMW-2
Matrix: Aqueous
Date Sampled: 02/18/2010 1450
Project Name: Rhodes Service Station
Date Received: 02/19/2010
Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/24/2010 0058	DLB		28153

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		117	70-130
Bromofluorobenzene		111	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
1	5030B	8260B	1	02/24/2010 0058	DLB		28153

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		117	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/23/2010 1448	PMS	02/22/2010 1910	28046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LB20008-009**

Description: **VMW-2** | Matrix: **Aqueous**

Date Sampled: **02/18/2010 1450** | Project Name: **Rhodes Service Station**

Date Received: **02/19/2010** | Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/23/2010 1448	PMS	02/22/2010 1910	28046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/23/2010 1310	CDF	02/22/2010 1600	28012

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010C**	**0.12**		**0.010**	**mg/L**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | N = Recovery is out of criteria | H = Out of holding time

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: LQ28153-001
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		1	1.0	ug/L	02/23/2010 2248
1,2-Dichloroethane	ND		1	1.0	ug/L	02/23/2010 2248
Ethylbenzene	ND		1	1.0	ug/L	02/23/2010 2248
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	ug/L	02/23/2010 2248
Naphthalene	ND		1	1.0	ug/L	02/23/2010 2248
Toluene	ND		1	1.0	ug/L	02/23/2010 2248
Xylenes (total)	ND		1	1.0	ug/L	02/23/2010 2248

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: LQ28153-002
Batch: 28153
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	44		1	88	72-127	02/23/2010 2116
1,2-Dichloroethane	50	40		1	81	59-143	02/23/2010 2116
Ethylbenzene	50	48		1	96	79-132	02/23/2010 2116
Methyl tertiary butyl ether (MTBE)	50	43		1	86	60-140	02/23/2010 2116
Naphthalene	50	47		1	95	62-136	02/23/2010 2116
Toluene	50	47		1	95	75-125	02/23/2010 2116
Xylenes (total)	100	96		1	96	70-130	02/23/2010 2116

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: LQ28153-003
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	46		1	91	3.7	72-127	20	02/23/2010 2139
1,2-Dichloroethane	50	42		1	84	4.3	59-143	20	02/23/2010 2139
Ethylbenzene	50	49		1	98	2.6	79-132	20	02/23/2010 2139
Methyl tertiary butyl ether (MTBE)	50	44		1	88	1.3	60-140	20	02/23/2010 2139
Naphthalene	50	51		1	101	6.7	62-136	20	02/23/2010 2139
Toluene	50	49		1	98	2.9	75-125	20	02/23/2010 2139
Xylenes (total)	100	100		1	100	4.0	70-130	20	02/23/2010 2139

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: LQ28153-001 **Matrix:** Aqueous
Batch: 28153 **Prep Method:** 5030B
Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	02/23/2010 2248
tert-Amyl methyl ether (TAME)	ND		1	10	ug/L	02/23/2010 2248
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	02/23/2010 2248
Diisopropyl ether (IPE)	ND		1	5.0	ug/L	02/23/2010 2248
3,3-Dimethyl-1-butanol	ND		1	20	ug/L	02/23/2010 2248
Ethanol	ND		1	100	ug/L	02/23/2010 2248
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	02/23/2010 2248
tert-butyl alcohol (TBA)	ND		1	20	ug/L	02/23/2010 2248

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: LQ28153-002
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	940		1	94	40-130	02/23/2010 2116
tert-Amyl methyl ether (TAME)	50	47		1	93	40-130	02/23/2010 2116
tert-Butyl formate (TBF)	250	260		1	105	40-130	02/23/2010 2116
Diisopropyl ether (IPE)	50	48		1	97	70-130	02/23/2010 2116
3,3-Dimethyl-1-butanol	1000	1100		1	114	40-130	02/23/2010 2116
Ethanol	5000	5000		1	99	40-130	02/23/2010 2116
Ethyl-tert-butyl ether (ETBE)	50	45		1	91	40-130	02/23/2010 2116
tert-butyl alcohol (TBA)	1000	920		1	92	40-130	02/23/2010 2116

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: LQ28153-003
Batch: 28153
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	7.9	40-130	20	02/23/2010 2139
tert-Amyl methyl ether (TAME)	50	48		1	96	3.2	40-130	20	02/23/2010 2139
tert-Butyl formate (TBF)	250	270		1	107	2.4	40-130	20	02/23/2010 2139
Diisopropyl ether (IPE)	50	49		1	97	0.67	70-130	20	02/23/2010 2139
3,3-Dimethyl-1-butanol	1000	1200		1	116	2.2	40-130	20	02/23/2010 2139
Ethanol	5000	4700		1	94	5.0	40-130	20	02/23/2010 2139
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	1.5	40-130	20	02/23/2010 2139
tert-butyl alcohol (TBA)	1000	840		1	84	9.2	40-130	20	02/23/2010 2139

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: LQ28046-001 **Matrix:** Aqueous
Batch: 28046 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 02/22/2010 1910

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	02/23/2010 0838

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		99	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: LQ28046-002
Batch: 28046
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/22/2010 1910

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.28		1	112	60-140	02/23/2010 0859

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCSD

Sample ID: LQ28046-003
Batch: 28046
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/22/2010 1910

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.30		1	121	7.7	60-140	20	02/23/2010 1700

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MB

Sample ID: LQ28012-001
Batch: 28012
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/22/2010 1600

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Lead	ND		1	0.010	mg/L	02/23/2010 1253

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCS

Sample ID: LQ28012-002
Batch: 28012
Analytical Method: 6010C

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/22/2010 1600

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.40		1	101	80-120	02/23/2010 1258

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCSD

Sample ID: LQ28012-003 **Matrix:** Aqueous
Batch: 28012 **Prep Method:** 3005A
Analytical Method: 6010C **Prep Date:** 02/22/2010 1600

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.40	0.38		1	96	5.3	80-120	20	02/23/2010 1304

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: LQ29082-001
Batch: 29082
Analytical Method: 6010C

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 03/10/2010 1400

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Lead	ND		1	0.010	mg/L	03/10/2010 1940

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCS

Sample ID: LQ29082-002 **Matrix:** Aqueous
Batch: 29082 **Prep Method:** 3005A
Analytical Method: 6010C **Prep Date:** 03/10/2010 1400

Parameter	*Spike* Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.38		1	96	80-120	03/10/2010 1944

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCSD

Sample ID: LQ29082-003
Batch: 29082
Analytical Method: 6010C

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 03/10/2010 1400

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.40	0.39		1	98	2.6	80-120	20	03/10/2010 1949

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MS

Sample ID: LB20008-001MS
Batch: 29082
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 03/10/2010 1400

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.072	0.40	0.46		1	96	75-125	03/10/2010 1958

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MSD

Sample ID: LB20008-001MD
Batch: 29082
Analytical Method: 6010C

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 03/10/2010 1400

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.072	0.40	0.46		1	97	0.61	75-125	20	03/10/2010 2002

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

South Carolina

704-482-2111
704-482-4335 (FAX)
E-mail: Blueridgeb@aol.com

PROJECT NAME/LOCATION: Rhodes Service Station
GROUNDWATER INCIDENT #:

STF CODE:
P.O.#: 16953
LAB: Shealy

SAMPLERS: Matt Ange
PROJECT MANAGER: Ken Pimienta

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	alex naph MTBE 1,2DCA EDB BTEX 3 oxygenates VOA	Lead	EDB	REMARKS
mw-20	2/18/10	1250		✓	ground water sample.			X	X	X	LB 20008
mw-21		1311		✓				X	X	X	
mw-22		1329		✓				X	X	X	
mw-23		1230		✓				X	X	X	
mw-24		1215		✓				X	X	X	
mw-25		1347		✓				X	X	X	
mw-9R		1410		✓				X	X	X	
mw-14R		1431		✓				X	X	X	
VMW-2		1450		✓				X	X	X	

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Kenneth Pimienta	2-19-10	1115		2-19-10	1115
RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
	2-19-10	1530		2-19-10	1535
	2-19-10	1530		2/19/10 1550	

XEMISCOMIAN

Sat Day T.A.T. T=15

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 0

Page 1 of 1
Replaces Date: 09/24/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

Client: Blue Ridge Envl Svcs Cooler Inspected by/date: ECC 7/20/10 Lot # LB20008

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: 1.5 / °C / °C / °C / °C
/ °C / °C / °C / °C

Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified. PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

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_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐
SESI employee: _____ Date of response: _____
Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Blue Ridge Environmental Services
2315 Kings Road Ext.
Shelby, NC 28152
Attention: Joe McMurray

Project Name: **Rhodes Service Station**

Lot Number: **LC11067**
Date Completed: **03/16/2010**

Sabrina Boles
Sabrina E Boles
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Blue Ridge Environmental Services
Lot Number: LC11067
Project Name: Rhodes Service Station
Project Number:

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.

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.

The LCSD recovery and RPD for ethylbenzene were outside of method control limits in batch 29443 for 8260B. The LCS results were within limits. Therefore the associated sample results were reported and no corrective action was required.

The RPD in the LCSD for certain constituents exceeded method control limits in batch 29443; however, all other QA/QC criteria for the LCS were within acceptance criteria and method control limits. The associated sample results were reported and no corrective action was required.

Sample Summary
Blue Ridge Environmental Services
Lot Number: LC11067
Project Name: Rhodes Service Station
Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-20	Aqueous	03/11/2010 0930	03/11/2010
002	MW-21	Aqueous	03/11/2010 0945	03/11/2010
003	MW-22	Aqueous	03/11/2010 0959	03/11/2010
004	MW-23	Aqueous	03/11/2010 1012	03/11/2010
005	MW-24	Aqueous	03/11/2010 1036	03/11/2010
006	MW-25	Aqueous	03/11/2010 1050	03/11/2010
007	MW-9R	Aqueous	03/11/2010 1112	03/11/2010
008	MW-14R	Aqueous	03/11/2010 1131	03/11/2010

(8 samples)

Executive Summary
Blue Ridge Environmental Services
Lot Number: LC11067
Project Name: Rhodes Service Station
Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	MW-25	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	8.3		ug/L	15
008	MW-14R	Aqueous	Benzene	8260B	2.3		ug/L	19
008	MW-14R	Aqueous	Xylenes (total)	8260B	1.8		ug/L	19
008	MW-14R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.074		ug/L	20

(4 detections)

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LC11067-001**

Description: **MW-20** | Matrix: **Aqueous**

Date Sampled: **03/11/2010 0930** | Project Name: **Rhodes Service Station**

Date Received: **03/11/2010** | Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1320	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		119	70-130
Toluene-d8		112	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1320	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		119	70-130
1,2-Dichloroethane-d4		108	70-130
Toluene-d8		112	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2134	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services**
Description: **MW-20**
Date Sampled: **03/11/2010 0930**
Date Received: **03/11/2010**

Laboratory ID: **LC11067-001**
Matrix: **Aqueous**
Project Name: **Rhodes Service Station**
Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2134	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		103	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services | Laboratory ID: LC11067-002
Description: MW-21 | Matrix: Aqueous
Date Sampled: 03/11/2010 0945 | Project Name: Rhodes Service Station
Date Received: 03/11/2010 | Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1342	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		119	70-130
Toluene-d8		112	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1342	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		119	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		112	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2217	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LC11067-002**

Description: **MW-21** | Matrix: **Aqueous**

Date Sampled: **03/11/2010 0945** | Project Name: **Rhodes Service Station**

Date Received: **03/11/2010** | Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2217	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services
Description: MW-22
Date Sampled: 03/11/2010 0959
Date Received: 03/11/2010
Project Name: Rhodes Service Station
Project Number:
Laboratory ID: LC11067-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1404	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		123	70-130
Toluene-d8		113	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1404	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		123	70-130
1,2-Dichloroethane-d4		113	70-130
Toluene-d8		113	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2239	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Description: **MW-22**
Date Sampled: **03/11/2010 0959**
Date Received: **03/11/2010**
Project Name: **Rhodes Service Station**
Project Number:
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2239	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		62	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services
Description: MW-23
Date Sampled: 03/11/2010 1012
Date Received: 03/11/2010
Project Name: Rhodes Service Station
Project Number:
Laboratory ID: LC11067-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1426	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		120	70-130
Toluene-d8		111	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1426	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		120	70-130
1,2-Dichloroethane-d4		112	70-130
Toluene-d8		111	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2301	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Description: MW-23
Date Sampled: 03/11/2010 1012
Date Received: 03/11/2010

Laboratory ID: LC11067-004
Matrix: Aqueous
Project Name: Rhodes Service Station
Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2301	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LC11067-005**

Description: **MW-24** | Matrix: **Aqueous**

Date Sampled: **03/11/2010 1036** | Project Name: **Rhodes Service Station**

Date Received: **03/11/2010** | Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1449	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		117	70-130
Bromofluorobenzene		122	70-130
Toluene-d8		114	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1449	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		122	70-130
1,2-Dichloroethane-d4		117	70-130
Toluene-d8		114	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2322	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

Client: **Blue Ridge Environmental Services**
Description: **MW-24**
Date Sampled: **03/11/2010 1036**
Date Received: **03/11/2010**

Laboratory ID: **LC11067-005**
Matrix: **Aqueous**
Project Name: **Rhodes Service Station**
Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2322	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: **Blue Ridge Environmental Services** | Laboratory ID: **LC11067-006**

Description: **MW-25** | Matrix: **Aqueous**

Date Sampled: **03/11/2010 1050** | Project Name: **Rhodes Service Station**

Date Received: **03/11/2010** | Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1511	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**8.3**		**1.0**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		118	70-130
Bromofluorobenzene		123	70-130
Toluene-d8		114	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1511	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		123	70-130
1,2-Dichloroethane-d4		118	70-130
Toluene-d8		114	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2344	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

Client: **Blue Ridge Environmental Services**
Description: **MW-25**
Date Sampled: **03/11/2010 1050**
Date Received: **03/11/2010**

Laboratory ID: **LC11067-006**
Matrix: **Aqueous**
Project Name: **Rhodes Service Station**
Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/12/2010 2344	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services
Description: MW-9R
Date Sampled: 03/11/2010 1112
Date Received: 03/11/2010
Project Name: Rhodes Service Station
Project Number:
Laboratory ID: LC11067-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1533	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		121	70-130
Bromofluorobenzene		124	70-130
Toluene-d8		115	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1533	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		124	70-130
1,2-Dichloroethane-d4		121	70-130
Toluene-d8		115	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/13/2010 0006	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: **Blue Ridge Environmental Services**
Description: **MW-9R**
Date Sampled: **03/11/2010 1112**
Date Received: **03/11/2010**
Project Name: **Rhodes Service Station**
Project Number:
Laboratory ID: **LC11067-007**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/13/2010 0006	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services
Description: MW-14R
Date Sampled: 03/11/2010 1131
Date Received: 03/11/2010
Laboratory ID: LC11067-008
Matrix: Aqueous
Project Name: Rhodes Service Station
Project Number:

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1555	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**2.3**		**1.0**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**1.8**		**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		120	70-130
Bromofluorobenzene		122	70-130
Toluene-d8		113	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/12/2010 1555	RRH		29443

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		122	70-130
1,2-Dichloroethane-d4		120	70-130
Toluene-d8		113	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/13/2010 0027	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Client: Blue Ridge Environmental Services
Laboratory ID: LC11067-008

Description: MW-14R
Matrix: Aqueous

Date Sampled: 03/11/2010 1131
Project Name: Rhodes Service Station

Date Received: 03/11/2010
Project Number:

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/13/2010 0027	PMS	03/12/2010 1340	29268

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.074		0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Sample ID: LQ29443-001
Batch: 29443
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		1	1.0	ug/L	03/12/2010 1258
1,2-Dichloroethane	ND		1	1.0	ug/L	03/12/2010 1258
Ethylbenzene	ND		1	1.0	ug/L	03/12/2010 1258
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	ug/L	03/12/2010 1258
Naphthalene	ND		1	1.0	ug/L	03/12/2010 1258
Toluene	ND		1	1.0	ug/L	03/12/2010 1258
Xylenes (total)	ND		1	1.0	ug/L	03/12/2010 1258

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		121	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: LQ29443-002
Batch: 29443
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	51		1	101	72-127	03/12/2010 1011
1,2-Dichloroethane	50	46		1	92	59-143	03/12/2010 1011
Ethylbenzene	50	52		1	104	79-132	03/12/2010 1011
Methyl tertiary butyl ether (MTBE)	50	50		1	101	60-140	03/12/2010 1011
Naphthalene	50	52		1	105	62-136	03/12/2010 1011
Toluene	50	52		1	103	75-125	03/12/2010 1011
Xylenes (total)	100	110		1	109	70-130	03/12/2010 1011

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		122	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: LQ29443-003
Batch: 29443
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	36	+	1	72	34	72-127	20	03/12/2010 1033
1,2-Dichloroethane	50	31	+	1	62	39	59-143	20	03/12/2010 1033
Ethylbenzene	50	38	N,+	1	75	32	79-132	20	03/12/2010 1033
Methyl tertiary butyl ether (MTBE)	50	35	+	1	71	35	60-140	20	03/12/2010 1033
Naphthalene	50	39	+	1	78	29	62-136	20	03/12/2010 1033
Toluene	50	37	+	1	75	32	75-125	20	03/12/2010 1033
Xylenes (total)	100	77	+	1	77	34	70-130	20	03/12/2010 1033

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		120	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: LQ29443-001
Batch: 29443
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	03/12/2010 1258
tert-Amyl methyl ether (TAME)	ND		1	10	ug/L	03/12/2010 1258
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	03/12/2010 1258
Diisopropyl ether (IPE)	ND		1	5.0	ug/L	03/12/2010 1258
3,3-Dimethyl-1-butanol	ND		1	20	ug/L	03/12/2010 1258
Ethanol	ND		1	100	ug/L	03/12/2010 1258
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	03/12/2010 1258
tert-butyl alcohol (TBA)	ND		1	20	ug/L	03/12/2010 1258

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		121	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: LQ29443-002
Batch: 29443
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	110	40-130	03/12/2010 1011
tert-Amyl methyl ether (TAME)	50	51		1	103	40-130	03/12/2010 1011
tert-Butyl formate (TBF)	250	270		1	107	40-130	03/12/2010 1011
Diisopropyl ether (IPE)	50	52		1	104	70-130	03/12/2010 1011
3,3-Dimethyl-1-butanol	1000	1100		1	114	40-130	03/12/2010 1011
Ethanol	5000	5300		1	106	40-130	03/12/2010 1011
Ethyl-tert-butyl ether (ETBE)	50	51		1	102	40-130	03/12/2010 1011
tert-butyl alcohol (TBA)	1000	1100		1	110	40-130	03/12/2010 1011

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		122	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: LQ29443-003
Batch: 29443
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	102	7.7	40-130	20	03/12/2010 1033
tert-Amyl methyl ether (TAME)	50	36	+	1	72	36	40-130	20	03/12/2010 1033
tert-Butyl formate (TBF)	250	190	+	1	77	33	40-130	20	03/12/2010 1033
Diisopropyl ether (IPE)	50	36	+	1	72	37	70-130	20	03/12/2010 1033
3,3-Dimethyl-1-butanol	1000	1000		1	103	9.7	40-130	20	03/12/2010 1033
Ethanol	5000	2200	+	1	44	83	40-130	20	03/12/2010 1033
Ethyl-tert-butyl ether (ETBE)	50	35	+	1	69	38	40-130	20	03/12/2010 1033
tert-butyl alcohol (TBA)	1000	930		1	93	17	40-130	20	03/12/2010 1033

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		120	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: LQ29268-001
Batch: 29268
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 03/12/2010 1340

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	03/12/2010 2050

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		103	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: LQ29268-002 **Matrix:** Aqueous
Batch: 29268 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 03/12/2010 1340

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.31		1	122	60-140	03/12/2010 2112

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: LQ29268-102
Batch: 29268
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 03/12/2010 1340

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.31		1	123	60-140	03/13/2010 0154

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: LQ29268-002 **Matrix:** Aqueous
Batch: 29268 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 03/12/2010 1340

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N - Recovery is out of criteria
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: LQ29268-102 **Matrix:** Aqueous
Batch: 29268 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 03/12/2010 1340

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MS

Sample ID: LC11067-001MS
Batch: 29268
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 03/12/2010 1340

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.32		1	129	60-140	03/12/2010 2155

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		110	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

704.482-2111
704-482.4335 (FAX)
E-mail: Blueridgeb@aol.com

CHAIN OF CUSTODY

South Carolina

PROJECT NAME/LOCATION: Rhodes Service Station

GROUNDWATER INCIDENT #:

STF CODE:

P.O.#: 16967

LAB: Shealy

SAMPLERS: Matt Ange

PROJECT MANAGER: Ken Pimienta

LC11067

SAMPLE ID:	DATE:	TIME:	SOIL	WATER	SAMPLE DESCRIPTION	PRESERVATIVE	NUMBER OF CONTAINERS	BTEX Naph MTBE 8260 1,2 DCA Sampling	EPB 8011					REMARKS
MW-20	3/11/10	9:30		✓	ground water sample	HCl	6	X	X					
MW-21		9:45		✓			6	X	X					
MW-22		9:59		✓			6	X	X					
MW-23		10:12		✓			6	X	X					
MW-24		10:36		✓			6	X	X					
MW-25		10:50		✓			6	X	X					
MW-9R		11:12		✓			6	X	X					
MW-14R		11:31		✓			6	X	X					

RELINQUISHED BY: (SIGN.)	DATE:	TIME:	RECEIVED BY: (SIGN.)	DATE:	TIME:
Ken Pimienta	3/11/10	1245	[signature]	3.11.10	1245
[signature]	3.11.10	1740	[signature]	3/11/10	1740

X:\MISC\CHAIN\ Ved 1/3 ...

Temp 1.0

Shealy Environmental Services, Inc
Document Number: E-AD-016
Revision Number: 6

Page 1 of 1
Replaces Date: 09/22/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

Client: RHODES Service Station Cooler Inspected by/date: WAL / 4/11/10 Lot #: LC1067

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: 10 °C / °C / °C / °C
/ °C / °C / °C / °C

Method: ☐ Temperature Blank ☑ Against Bottles

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☑	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

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_2SO_4, HNO_3, HCl, NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

UST
APR 16 2010
PROGRAM

April 15, 2010

Ted
UST
DOCKET

Ms. Maia Milenkova
UST Program
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Rhodes Service Station
(Missing Items)
410 Spartanburg Highway
Welford, SC 29365
UST Permit # 08562

Dear Ms. Milenkova:

Please find enclosed the missing items from the Rhodes Service Station report dated April 2, 2010. The missing items include a copy of Table 3 - Select Summary of Groundwater Laboratory Analytical Results, revised boring logs and revised copies of Figure 2 - Site Map and Figure 7 - Groundwater Contaminant Concentration Map Sampled Sept 2009-Feb 2010.

If you should have any questions regarding this correspondence, please contact me at (704) 482-2111.

Sincerely,

SC Contractor Certification No.: 0095
Blue Ridge Environmental Services, Inc.

Kenneth A. Pimienta

Kenneth A. Pimienta

Recycled Paper

Enclosures

Revised Figures
Figure 2: Site Map
Figure 7: Groundwater Contaminant Concentration Map Sampled Sept 2009-Feb 2010

Table
3. Select Summary of Groundwater Laboratory Analytical Results

Revised Appendix
A. *Boring Logs*

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	1/21/00	4/24/01	11/20/01	6/20/02	9/15/09	10/28/09	2/18/10
Well No: **MW-1**							
Benzene	21000	12400	19100	12100	3300		
Toluene	85000	38000	49800	34500	26000		
Ethylbenzene	2800	1660	3800	2330	3700		
Xylene	21000	13600	21900	12700	21500		
Total BTEX	*129800*	*65660*	*94600*	*61630*	*54500*		
MTBE	ND	ND	ND	ND	<100		
Naphthalene	460	434	530	380	680	**NS**	**NS**
1,2-Dibromoethane	NA	835	NA	NA	69		
1,2-Dichlorethane					<100		
Methane	NA	ND	NA	NA	NA		
Lead*	2.3	1.98	2.32	NA	0.038		
Iron*	0.79	1.36	NA	NA	NA		
Nitrite*	ND	ND	NA	NA	NA		
Nitrate*	0.26	ND	NA	NA	NA		
Sulfate*	ND	1.45	NA	NA	NA		
Sampling Date:	**1/21/00**	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-2**							
Benzene	9	ND	ND	ND	<1.0		
Toluene	*1600*	*60.2*	*262*	*56.6*	*<1.0*		
Ethylbenzene	880	110	663	148	55		
Xylene	5000	420	3860	541	1.4		
Total BTEX	*7489*	*590.2*	*4785*	*745.6*	*56.4*		
MTBE	ND	ND	ND	ND	<1.0		
Naphthalene	220	30.9	125	33.8	34	**NS**	**NS**
1,2-Dibromoethane					<0.021		
1,2-Dichlorethane	NA	ND	NA	NA	<1.0		
Methane	NA	ND	NA	NA	NA		
Lead*	0.12	0.315	0.125	NA	0.068		
Iron*	14	0.463	NA	NA	NA		
Nitrite*	ND	ND	NA	NA	NA		
Nitrate*	ND	0.11	NA	NA	NA		
*Sulfate**	ND	*6.76*	NA	NA	NA		
Sampling Date:	**1/21/00**	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-3**							
Benzene	4100	1350	1500	711		<100	
Toluene	75000	49000	48900	44800		8700	
Ethylbenzene	3300	1810	3770	3760		4400	
Xylene	18000	16700	*22600*	*20700*		*16400*	
Total BTEX	*100400*	*68860*	*76770*	*69971*		*29500*	
MTBE	ND	ND	ND	ND		<100	
Naphthalene	400	614	645	624	**NL**	360	**NS**
1,2-Dibromoethane	NA	ND	NA	NA		<0.021	
1,2-Dichlorethane						<100	
Methane	NA	111	NA	NA		NA	
Lead*	0.063	0.445	0.218	NA		0.026	
Iron*	27	16.1	NA	NA		NA	
Nitrite*	ND	ND	NA	NA		NA	
Nitrate*	ND	ND	NA	NA		NA	
Sulfate*	120	156	NA	NA		NA	
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-4**							
Benzene							
Toluene							
Ethylbenzene							
Xylene							
Total BTEX							
MTBE		**NS**	**FPP**	**FPP**	**FPP**	**FPP**	**NS**
Naphthalene							
1,2-Dibromoethane							
Methane							
Lead*							
Iron*							
Nitrate*							
Sulfate*							

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	4/24/01	11/20/01	6/20/02	9/15/09	10/28/09	2/18/10
Well No: **MW-5**						
Benzene	9480	19200	17100	19000		
Toluene	28500	30000	36400	51000		
Ethylbenzene	860	1400	1740	4100		
Xylene	5680	17800	1330	23200		
Total BTEX	*44520*	*68400*	*56570*	*97300*		
MTBE	ND	ND	18	<1000		
Naphthalene	6.25^	510	258	<1000	**NS**	**NS**
1,2-Dibromoethane	460	NA	NA	500		
1,2-Dichlorethane			NA	<1000		
Methane	ND	NA	NA	NA		
Lead*	0.088	0.808	NA	1.3		
Iron*	2.08	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	0.59	NA	NA	NA		
Sulfate*	10.4	NA	NA	NA		
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-6**						
Benzene	ND	ND	ND	84		
Toluene	ND	ND	ND	150		
Ethylbenzene	ND	ND	ND	19		
Xylene	3.1	ND	ND	68		
Total BTEX	*3.1*	*ND*	*ND*	*321*		
MTBE	ND	ND	ND	<1.0		
Naphthalene	ND	ND	ND	<1.0	**NS**	**NS**
1,2-Dibromoethane	ND	NA	NA	<0.021		
1,2-Dichlorethane			NA	<1.0		
Methane	ND	NA	NA	NA		
Lead*	0.192	0.053	NA	0.041		
Iron*	0.102	NA	NA	NA		
Nitrite*	0.44	NA	NA	NA		
Nitrate*	0.52	NA	NA	NA		
*Sulfate**	*ND*	*NA*	*NA*	*NA*		
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-7**						
Benzene	ND	ND	ND			
Toluene	ND	ND	ND			
Ethylbenzene	ND	ND	ND			
Xylene	ND	ND	ND			
Total BTEX	*ND*	*ND*	*ND*			
MTBE	ND	ND	ND			
Naphthalene	ND	ND	ND	**NL**	**NL**	**NL**
1,2-Dibromoethane	ND	NA	NA			
Methane	ND	NA	NA			
Lead*	0.144	0.017	NA			
Iron*	0.19	NA	NA			
Nitrite*	ND	NA	NA			
Nitrate*	1.11	NA	NA			
Sulfate*	ND	NA	NA			
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-8**						
Benzene	ND	ND	ND	<1.0		
Toluene	ND	ND	ND	1.1		
Ethylbenzene	ND	ND	ND	<1.0		
Xylene	ND	ND	ND	<3.0		
Total BTEX	*ND*	*ND*	*ND*	*1.1*		
MTBE	ND	ND	ND	<1.0		
Naphthalene	ND	ND	ND	<1.0	**NS**	**NS**
1,2-Dibromoethane	ND	NA	NA	<0.022		
1,2-Dichlorethane				<1.0		
Methane	ND	NA	NA	NA		
Lead*	0.016	0.007	NA	0.28		
Iron*	ND	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	0.79	NA	NA	NA		
Sulfate*	ND	NA	NA	NA		

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	4/24/01	11/20/01	6/20/02	9/15/09	10/28/09	2/18/10
Well No: MW-9						
Benzene	ND					
Toluene	ND					
Ethylbenzene	ND					
Xylene	ND					
Total BTEX	*ND*					
MTBE	ND					
Naphthalene	ND	NS	NS	NL	NL	NL
1,2-Dibromoethane	ND					
Methane	ND					
Lead*	0.404					
Iron*	0.615					
Nitrite*	ND					
Nitrate*	1.84					
Sulfate*	1.44					
Sampling Date:						**3/11/10**
Well No: MW-9R						
Benzene						<1.0
Toluene						<1.0
Ethylbenzene						<1.0
Xylene						<1.0
Total BTEX						<4.0
MTBE						<1.0
Naphthalene						<1.0
1,2-Dibromoethane						<0.020
Lead*						0.053**
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: MW-10						
Benzene	ND	ND	ND	<1.0		
Toluene	ND	ND	ND	<1.0		
Ethylbenzene	ND	ND	ND	<1.0		
Xylene	ND	ND	ND	<3.0		
Total BTEX	ND	ND	ND	<6.0		
MTBE	ND	ND	ND	<1.0		
Naphthalene	ND	ND	ND	<1.0	NS	NS
1,2-Dibromoethane	ND	NA	NA	<0.021		
1,2-Dichlorethane				<1.0		
Methane	ND	NA	NA	NA		
Lead*	0.078		NA	0.23		
Iron*	0.184	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	2.48	NA	NA	NA		
Sulfate*	1.42	NA	NA	NA		
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: MW-11						
Benzene	ND	ND	ND	<1.0		
Toluene	ND	ND	ND	<1.0		
Ethylbenzene	ND	ND	ND	<1.0		
Xylene	ND	ND	ND	<3.0		
Total BTEX	*ND*	*ND*	*ND*	*<6.0*		
MTBE	ND	ND	ND	<1.0		
Naphthalene	ND	ND	ND	<1.0	NS	NS
1,2-Dibromoethane	ND	NA	NA	<0.021		
1,2-Dichlorethane				<1.0		
Methane	ND	NA	NA	NA		
Lead*	0.092	0.042	NA	0.016		
Iron*	10.2	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	1.22	NA	NA	NA		
Sulfate*	5.65	NA	NA	NA		

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	4/24/01	11/20/01	6/20/02	9/15/09	10/28/09	2/18/10
Well No: **MW-12**						
Benzene	4850	4410	2400	950		
Toluene	5160	467	682	2200		
Ethylbenzene	1090	410	497	1100		
Xylene	6150	3270	2140	4900		
Total BTEX	*17250*	*8557*	*5719*	*9150*		
MTBE	ND	ND	ND	38		
Naphthalene	93	194	194	320	**NS**	**NS**
1,2-Dibromoethane	30.1	NA	NA	3.6		
1,2-Dichlorethane			NA	55		
Methane	ND	NA	NA	NA		
Lead*	0.094	0.109	NA	0.023		
Iron*	ND	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	ND	NA	NA	NA		
Sulfate*	2.32	NA	NA	NA		
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-13**						
Benzene	2300	1790	2050		<1.0	
Toluene	*29.8*	*23.5*	*ND*		*<1.0*	
Ethylbenzene	45.8	497	385		4.1	
Xylene	15000	303	2700		49	
Total BTEX	*17375.6*	*2613.5*	*5135*		*53.1*	
MTBE	ND	ND	ND		<1.0	
Naphthalene	28.2	101	63^	**NL**	<1.0	**NL**
1,2-Dibromoethane	11.6	NA	NA		<0.021	
1,2-Dichlorethane			NA		20	
Methane	ND	NA	NA		NA	
Lead*	0.003	0.138	NA		0.24	
Iron*	ND	NA	NA		NA	
Nitrite*	ND	NA	NA		NA	
Nitrate*	ND	NA	NA		NA	
*Sulfate**	*ND*	*NA*	*NA*		*NA*	
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-14**						
Benzene	2800	ND	ND			
Toluene	ND	ND	ND			
Ethylbenzene	ND	ND	ND			
Xylene	ND	ND	ND			
Total BTEX	*2800*	*ND*	*ND*			
MTBE	ND	ND	ND			
Naphthalene	ND	ND	ND	**NL**	**NL**	**NL**
1,2-Dibromoethane	ND	NA	NA			
Methane	ND	NA	NA			
Lead*	0.119	0.196	NA			
Iron*	0.288	NA	NA			
Nitrite*	ND	NA	NA			
Nitrate*	1.05	NA	NA			
Sulfate*	4.18	NA	NA			
Sampling Date:						**3/11/10**
Well No: **MW-14R**						
Benzene						2.3
Toluene						<1.0
Ethylbenzene						<1.0
Xylene						1.8
Total BTEX						4.1
MTBE						<1.0
Naphthalene						<1.0
1,2-Dibromoethane						0.074
Lead*						0.078**

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	4/24/01	11/20/01	6/20/02	9/15/09	10/28/09	2/18/10
Well No: **MW-15**						
Benzene						
Toluene						
Ethylbenzene						
Xylene						
Total BTEX						
MTBE						
Naphthalene	**NS**	**FPP**	**FPP**	**FPP**	**FPP**	**NS**
1,2-Dibromoethane						
Methane						
Lead*						
Iron*						
Nitrite*						
Nitrate*						
Sulfate*						
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-16**						
Benzene	ND	ND	ND	<1.0		
Toluene	ND	ND	ND	<1.0		
Ethylbenzene	ND	ND	ND	<1.0		
Xylene	ND	ND	ND	<3.0		
Total BTEX	*ND*	*ND*	*ND*	*<6.0*		
MTBE	ND	ND	ND	<1.0		
Naphthalene	ND	ND	ND	<1.0	**NS**	**FPP**
1,2-Dibromoethane	ND	NA	NA	<0.021		
1,2-Dichlorethane				<1.0		
Methane	ND	NA	NA	NA		
Lead*	0.089	ND	ND	0.11		
Iron*	ND	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	0.81	NA	NA	NA		
Sulfate*	9.26	NA	NA	NA		
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-17**						
Benzene	ND	ND	ND	<1.0		
Toluene	ND	ND	ND	<1.0		
Ethylbenzene	ND	ND	ND	<1.0		
Xylene	ND	ND	ND	<3.0		
Total BTEX	*ND*	*ND*	*ND*	*<6.0*		
MTBE	ND	ND	ND	<1.0		
Naphthalene	ND	ND	ND	<1.0	**NS**	**NS**
1,2-Dibromoethane	ND	NA	NA	<0.021		
1,2-Dichlorethane				<1.0		
Methane	ND	NA	NA	NA		
Lead*	0.129	0.004	NA	0.015		
Iron*	ND	NA	NA	NA		
Nitrite*	ND	NA	NA	NA		
Nitrate*	0.2	NA	NA	NA		
Sulfate*	ND	NA	NA	NA		
Sampling Date:	**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No: **MW-18**						
Benzene	ND	ND	ND		<1.0	
Toluene	ND	ND	ND		<1.0	
Ethylbenzene	ND	ND	ND		<1.0	
Xylene	ND	ND	ND		<3.0	
Total BTEX	*ND*	*ND*	*ND*		*<6.0*	
MTBE	ND	ND	ND		<1.0	
Naphthalene	ND	ND	ND	**NL**	<1.0	**NL**
1,2-Dibromoethane	ND	NA	NA		<0.021	
Methane	ND	NA	NA		NA	
Lead*	0.039	0.049	0.039		<0.0050	
Iron*	0.126	NA	NA		NA	
Nitrite*	ND	NA	NA		NA	
Nitrate*	10.8	NA	NA		NA	
Sulfate*	ND	NA	NA		NA	

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:	*6/20/02*	*9/15/09*	*10/28/09*	*2/18/10*
Well No: **MW-19**				
Benzene	ND		<1.0	
Toluene	ND		<1.0	
Ethylbenzene	ND		<1.0	
Xylene	ND		<3.0	
Total BTEX	*ND*	**NS**	*<6.0*	**NS**
MTBE	ND		<1.0	
Naphthalene	ND		<1.0	
1,2-Dibromoethane	NA		<0.021	
1,2-Dichlorethane	NA		<1.0	
Lead*	NA		0.011	
Sampling Date:				**3/11/10**
Well No: **MW-20**				
Benzene				<1.0
Toluene				<1.0
Ethylbenzene				<1.0
Xylene				<1.0
Total BTEX				<4.0
MTBE				<1.0
Naphthalene				<1.0
1,2-Dibromoethane				<0.020
Lead*				0.072**
Sampling Date:				**3/11/10**
Well No: **MW-21**				
Benzene				<1.0
Toluene				<1.0
Ethylbenzene				<1.0
Xylene				<1.0
Total BTEX				<4.0
MTBE				<1.0
Naphthalene				<1.0
1,2-Dibromoethane				<0.020
Lead*				0.048**
Sampling Date:				**3/11/10**
Well No: **MW-22**				
Benzene				<1.0
Toluene				<1.0
Ethylbenzene				<1.0
Xylene				<1.0
Total BTEX				<4.0
MTBE				<1.0
Naphthalene				<1.0
1,2-Dibromoethane				<0.020
Lead*				0.048**
Sampling Date:				**3/11/10**
Well No: **MW-23**				
Benzene				<1.0
Toluene				<1.0
Ethylbenzene				<1.0
Xylene				<1.0
Total BTEX				<4.0
MTBE				<1.0
Naphthalene				*<1.0*
1,2-Dibromoethane				<0.020
Lead*				0.16**

Table 3
Select Summary of Groundwater Laboratory Analytical Results
Rhodes Service Station
410 Spartanburg Highway
Wellford, South Carolina
Site ID: 08562

Sampling Date:							***3/11/10***
Well No:	**MW-24**						
Benzene							<1.0
Toluene							<1.0
Ethylbenzene							<1.0
Xylene							<1.0
Total BTEX							<4.0
MTBE							<1.0
Naphthalene							<1.0
1,2-Dibromoethane							<0.021
Lead*							0.028**
Sampling Date:							**3/11/10**
Well No:	**MW-25**						
Benzene							<1.0
Toluene							<1.0
Ethylbenzene							<1.0
Xylene							<1.0
Total BTEX							<4.0
MTBE							8.3
Naphthalene							<1.0
1,2-Dibromoethane							<0.020
Lead*							0.053**
Sampling Date:		**4/24/01**	**11/20/01**	**6/20/02**	**9/15/09**	**10/28/09**	**2/18/10**
Well No:	**VMW-1**						
Benzene		67.4	2.9	3.8	7		
Toluene		140	3.7	4.7	9.7		
Ethylbenzene		29.3	ND	ND	<1.0		
Xylene		199	3.4	7.1	6.4		
Total BTEX		*435.7*	*10*	*15.6*	*23.1*		
MTBE		ND	ND	ND	<1.0		
Naphthalene		30.4	ND	ND	1.6	**NS**	**NS**
1,2-Dibromoethane		ND	NA	NA	<0.021		
1,2-Dichlorethane					<1.0		
Methane		ND	NA	NA	NA		
Lead*		ND	ND	NA	<0.0050		
Iron*		0.111	NA	NA	NA		
Nitrite/Nitrate*		0.86	NA	NA	NA		
Sulfate*		26800	NA	NA	NA		
Sampling Date:							**2/18/10**
Well No:	**VMW-2**						
Benzene							<1.0
Toluene							<1.0
Ethylbenzene							<1.0
Xylene							<1.0
Total BTEX							<1.0
MTBE							<1.0
Naphthalene							<1.0
1,2-Dibromoethane							<0.019
Lead*							0.12

Notes:
ND - Not Detected
NS - Not sampled
NA - Not Applicable/Analysis not requested
*** in mg/L**
^ by 8270 (organic parameters)
FPP - Free Phase Product
NL - Not Located
****Sample collected on 2/18/10**

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

TEST BORING FIELD LOG

PROJECT: Rhodes Service Station PROJECT NO.: 08562 BORING: FS-41 & FS-43

DATE STARTED: 1/14/10 DATE COMPLETED: 1/14/10 DRILLER: JM SURFACE ELEV.: _____

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0	5	Red orange friable silt							
5	15	Reddish brown to brown micaceous silt							
15	20	yellow to brown micaceous sandy silt							
20	25	Brown micaceous silt							
		TD 25' FS-41							
0	5	Reddish brown friable silt							
5	15	Reddish Brown to brown friable micaceous sandy silt							
15	25	Brown micaceous silt							
		TD-25' FS-43							

METHOD OF DRILLING (Check One)

a. AUGER ✓ SIZE 3 3/4

b. WASH _____ WATER _____ MUD _____

BORING SIZE 4 1/2 BIT USED Spade

CASING SIZE 2 LENGTH 15'

UNDISTURBED SAMPLES: NO. NONE SIZE NONE

BAG SAMPLES: NO. NONE

SPECIAL TESTS (Hrs. & Explain) NONE

WEATHER 38°F cold

NON-DRILLING TIME (Hrs.) 2.5

BORING LAYOUT N/A MOVING 1.50 hr

HAULING WATER N/A STANDBY 1.00 hr

WATER LEVEL: @ ~15' DATE 1/14/10 TIME Site Averag wk

@ _____ DATE _____ TIME _____

CAVE-IN DEPTH: @ N/A DATE N/A TIME N/A

REMARKS: All remarks should be explained on the back of white copy.

FORM 501

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

TEST BORING FIELD LOG

PROJECT: Rhodes Service Station PROJECT NO.: 08562 BORING: FS-38, ~~FS-34, FS-35 & FS-36~~

DATE STARTED: 12/17/09 DATE COMPLETED: 12/17/09 DRILLER: JM SURFACE ELEV.: _____

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0	5	Red orange friable silt							
5	10	Reddish brown to yellow brown silty sand							
10	25	Reddish brown to brown micaceous sandy silt TT 25 FS-34							
0	15	Reddish brown friable silt @14'-15' yellow friable silt							
15	20	light brown friable micaceous silt							
20	25	Gray to brown micaceous silty sand TT 25' FS-35							
0	15	Reddish Brown Friable silt							
15	20	light brown friable micaceous silt							
20	25	Brown micaceous silty sand TT 25' FS-36							
0	15	Reddish Brown Friable silt							
15	20	light brown friable micaceous silt							
20	25	Reddish Brown to Brown micaceous silty sand TT 25' FS-38							

METHOD OF DRILLING (Check One)

a. AUGER ✓ SIZE 3 3/4

b. WASH _____ WATER _____ MUD _____

BORING SIZE 4 1/2 BIT USED Spade

CASING SIZE 2 LENGTH 15'

UNDISTURBED SAMPLES: NO. None SIZE None

BAG SAMPLES: NO. None

SPECIAL TESTS (Hrs. & Explain) None

WEATHER 43° F cold and Sunny

NON-DRILLING TIME (Hrs.) 2.5

BORING LAYOUT N/A MOVING 1.50 hrs

HAULING WATER N/A STANDBY 1.00 hrs

WATER LEVEL: @ ~15' DATE 12/17/10 TIME Average water level

@ _____ DATE _____ TIME _____

CAVE-IN DEPTH: @ N/A DATE N/A TIME N/A

REMARKS: All remarks should be explained on the back of white copy.

FORM F01

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

TEST BORING FIELD LOG

PROJECT: Rhodes Service Station PROJECT NO.: 08562 BORING: FS-37, FS-39 + VFS-40

DATE STARTED: 12/21/09 DATE COMPLETED: 12/22/09 DRILLER: JM SURFACE ELEV.: _____

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0	20	Red orange Friable Silt 12/22/09							
20	25	Brown to gray Friable micaceous sandy silt TD 25' FS-37							
0	15	Reddish Brown Friable silt 12/22/09							
15	20	light brown Friable micaceous silt							
20	35	Gray to brown micaceous silty Sand							
35	43	Saprolite @ 43' Auger Refusal TD 43' VFS-40							
0	15	Reddish Brown Friable silt 12/21/09							
15	20	light brown Friable micaceous silt							
20	25	Gray to brown micaceous silty Sand TD 25' FS-39							

METHOD OF DRILLING (Check One)

a. AUGER ✓ SIZE 3 3/4

b. WASH _____ WATER _____ MUD _____

BORING SIZE 4 1/2 BIT USED Spade

CASING SIZE 2 LENGTH 15

UNDISTURBED SAMPLES: NO. N/A SIZE N/A

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER 40° cloudy and breezy

NON-DRILLING TIME (Hrs.) 2.5

BORING LAYOUT _____ MOVING 1.50 hrs

HAULING WATER _____ STANDBY 1.00 hrs

WATER LEVEL: @ ~15 DATE 12/21/09 TIME Average WL

@ ~15 DATE 12/22/09 TIME FS-39

CAVE-IN DEPTH: @ _____ DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

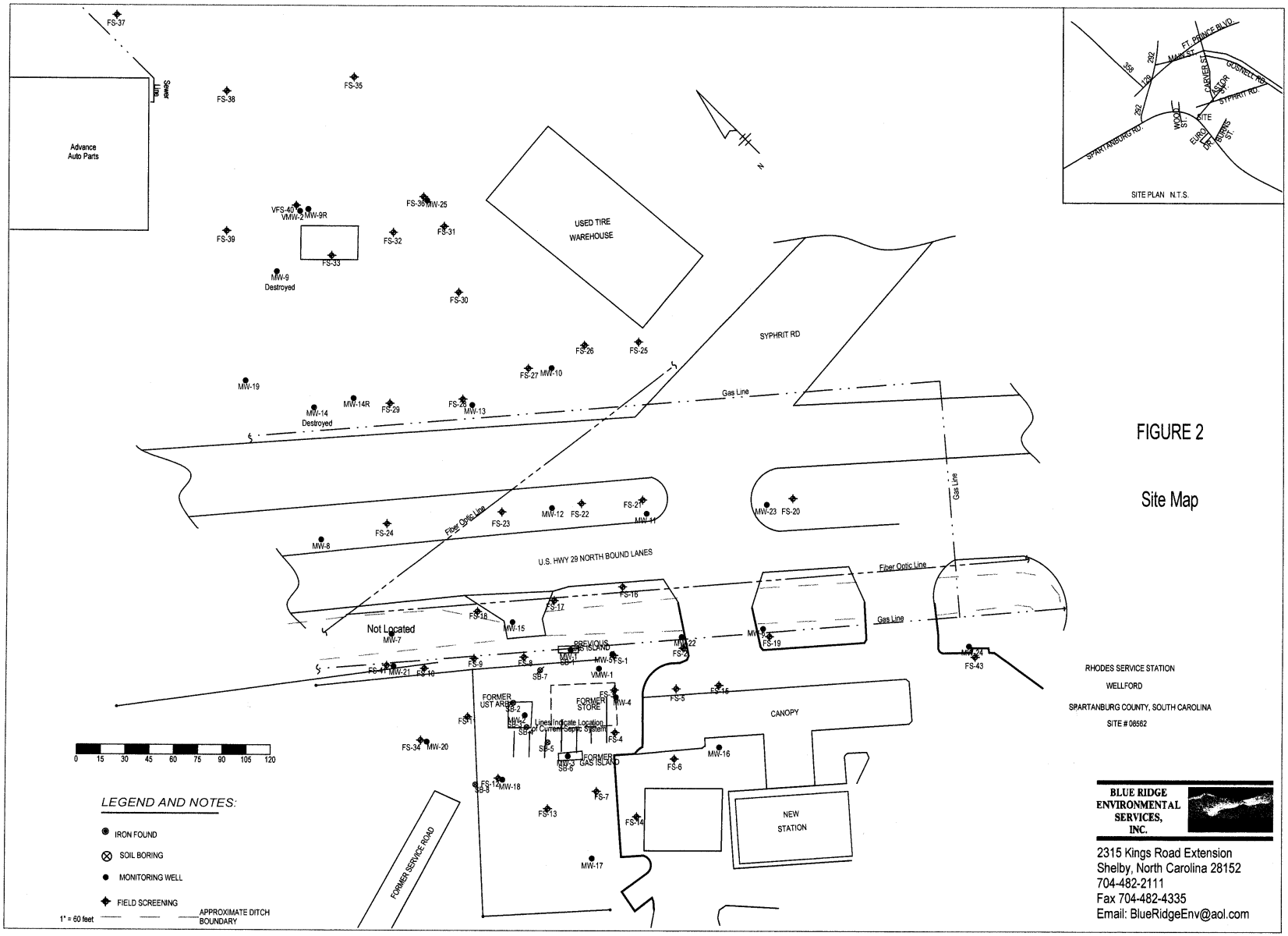


FIGURE 2

Site Map

RHODES SERVICE STATION

WELLFORD

SPARTANBURG COUNTY, SOUTH CAROLINA

SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

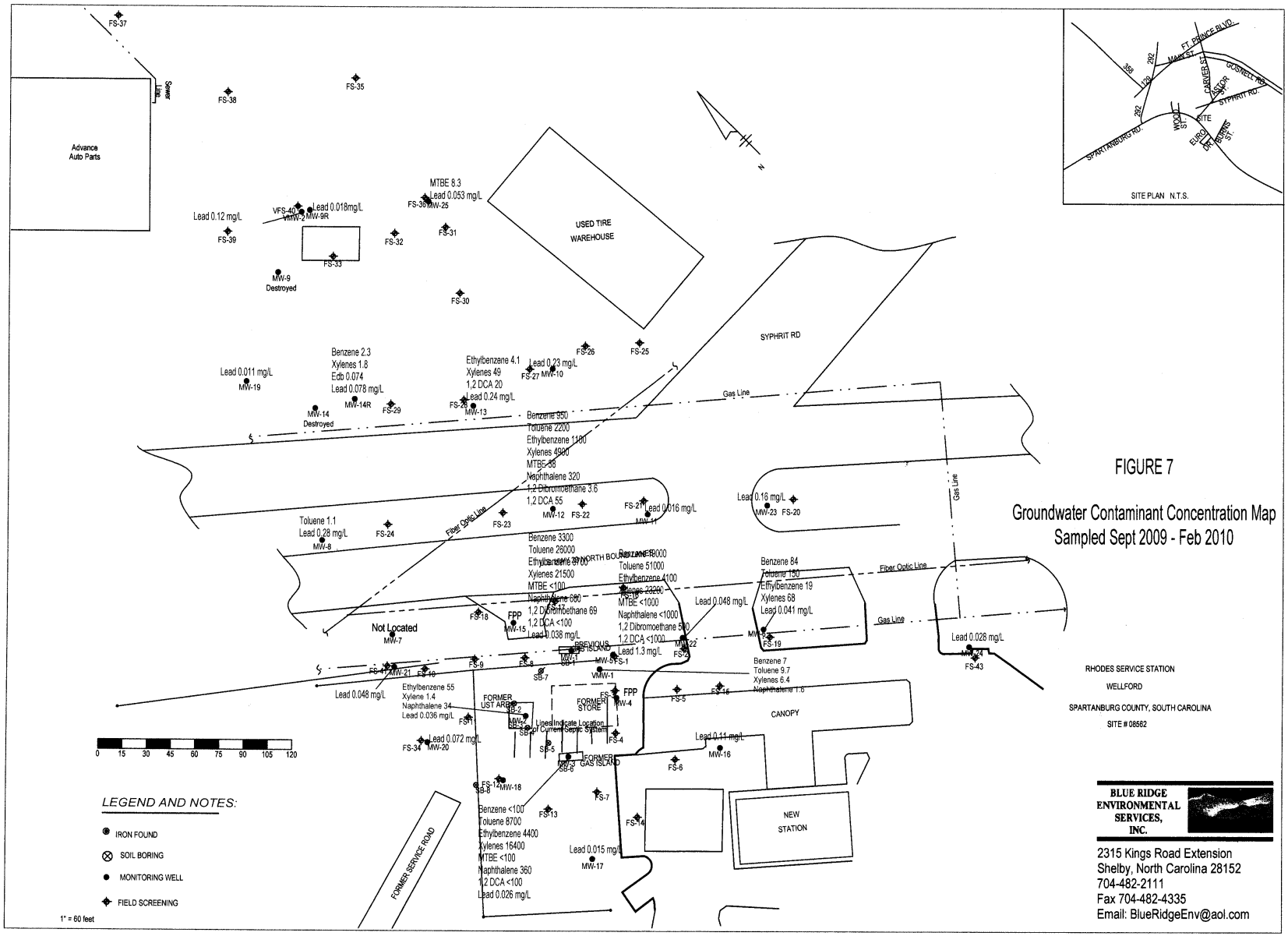


FIGURE 7

Groundwater Contaminant Concentration Map
Sampled Sept 2009 - Feb 2010

RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAY 0 6 2010

UST DOCKET 8tech

MR ROBERT TURNER
ODOM OIL COMPANY
655 PERRIN DRIVE
SPARTANBURG SC 29307

Re: **AFVR Directive**
Rhodes Service Station, 410 Spartanburg Highway South, Wellford, SC
UST Permit #08562; CA #38884
Release reported January 24, 1990
Tier II Additional Assessment report received April 8, 2010
Spartanburg County

Dear Mr. Turner:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using Blue Ridge Environmental Services, Inc. as your contractor. Based on the data and findings of the referenced report, the UST Division has determined the next necessary scope of work is to conduct two (2) consecutive Aggressive Fluid Vapor Recovery (AFVR) events to remove free-phase petroleum product from monitoring wells MW-4 and MW-15.

Cost Agreement #38884 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR activities may proceed immediately upon receipt of this letter. The report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR events noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR events started and ended, ambient air temperature, and general weather conditions during the AFVR events.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.
- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).
- The total volume of free-phase petroleum product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume). Wells containing free-phase product should be gauged at the beginning and end of the AFVR event with the data documented in a table.
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.

- Recovered free phase petroleum and groundwater must be accepted by a permitted treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report.

The drop tube or "stinger" should be installed six inches below the free-phase product or at the top of the well screen if free-phase product is not present. The tube may be installed deeper only if the extraction well exhibits slow recovery (repeatedly goes dry) or if it is necessary to establish a steeper hydraulic gradient to enhance product migration towards the extraction well. The overall goal is to minimize the recovery of free-phase product and petroleum vapors in the capillary fringe and minimize the recovery of groundwater.

Blue Ridge Environmental 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.

An AFVR report and invoice are due within sixty (60) days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within one hundred twenty (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 UST 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 UST Division for the cost to be paid. The SCDHEC 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 SCDHEC 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 SCDHEC grants pre-approval for transportation of virgin petroleum impacted 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.

On all correspondence concerning this directive and site, please reference **UST Permit #08542 and CA 38884.** If there are any questions concerning this project, please contact me by telephone at (803) 896-4078, by fax at (803) 896-6245 or by e-mail at RIVERSMS@dhec.sc.gov.

Sincerely,

Michael (Mike) Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Blue Ridge Environmental Services, Inc., 2315 Kings Road Ext., Shelby, NC 28152 (w/ enc)
Technical File (w/ enc)

MR/AFVRDIR04.21.10

Approved Cost Agreement 38884

Facility: 08562 RHODES SERVICE STATION
RIVERSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	1.0000	575.00	575.00
		B	PERSONNEL	1.0000	290.00	290.00
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	2,000.0000	0.60	1,200.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	7,257.00	1,088.55
23 EFR						
		A	8 HOUR EVENT	1.0000	3,000.00	3,000.00
		B	ADDITIONAL HOUR	8.0000	204.00	1,632.00
		C	OFF GAS TREATMENT	16.0000	35.00	560.00
				Total Amount		8,345.55

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.

2315 Kings Road Ext.
Shelby, North Carolina 28152
(704) 482-2111
Fax (704) 482-4335

UST
AUG 1 1 2010
PROGRAM

UST
DOCKET

August 10, 2010

Mr. Mike Rivers
UST Program
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Rhodes Service Station
410 Spartanburg Highway
Welford, SC 29385
UST Permit # 08562

Dear Mr. Rivers:

The purpose of this correspondence is to present the results of an AFVR event performed at the above referenced site (Figure 1). The scope of work was pre-approved under cost approval number 38884. An AFVR event was conducted on monitor wells MW-4 and MW-15 on June 24, 2010, per a correspondence from your office dated May 6, 2010. The AFVR event was conducted by Advanced Environmental Options (AEO) under the direct supervision of Blue Ridge Environmental Services Inc.. AEO utilized a Hydro-Vac Series 2000 high vacuum positive displacement blower vacuum truck capable of a maximum of 800 CFM (640 CFM at 15 inches of mercury) and maximum of 27 inches of mercury.

On June 24, 2010 weather conditions were noted during the AFVR event and consisted of sunny sky's with a high of approximately 92° F. The table below provides the duration of the total volume of fluids recovered during the AFVR events, the total weight of free product recovered as vapor during the events and the amount of calculated gallons of fluids recovered.

Recycled Paper

Rhodes Service Station
UST No.: 08562
August 10, 2010

Blue Ridge Environmental Services, Inc.
SC Contractor Certification No.: 0095

Table 1
Total Volume of Fluids Recovered
June 24, 2010

Well ID	Date	Event Duration (hrs.)	Total Separated Free Product (gal)	Total Fluids Recovered (gal)	Total Emissions (gal)
MW-4	6/24/10	8	59.3	950	4.72
MW-15					

Please refer to the appendices for field data record tables, total emissions tables and copies of the disposal manifests from the AFVR event conducted. The following table provides pre-recovery and post recovery depth to water and depth to product levels in specific on-site monitoring wells. The product/water levels were determined using an interface probe. The locations of all monitor wells are illustrated on Figure 2.

Table 2
Pre/Post Event Water Levels AFVR
June 24, 2010

Well ID	Stinger Depth (ft)	Pre-Event			Post-Event		
		DTP (ft.)	DTW (ft.)	Thickness (ft.)	DTP (ft.)	DTW (ft.)	Thickness (.ft)
MW-4	17.5	16.02	16.25	.23	N/A	18.10	N/A
MW-15	17.5	15.52	15.73	.21	N/A	17.63	N/A

• N/A: Not Applicable/No measurable readings.

If you should have any questions regarding this correspondence, please contact me at (704) 482-2111.

Sincerely,
Blue Ridge Environmental Services, Inc.

Kenneth A. Pimienta
Geologist

JOSEPH WILLIAM McMURRAY REGISTERED No. 2111 PROFESSIONAL GEOLOGIST SOUTH CAROLINA

Joseph W. McMurray, PG
S.C. Registration #2111

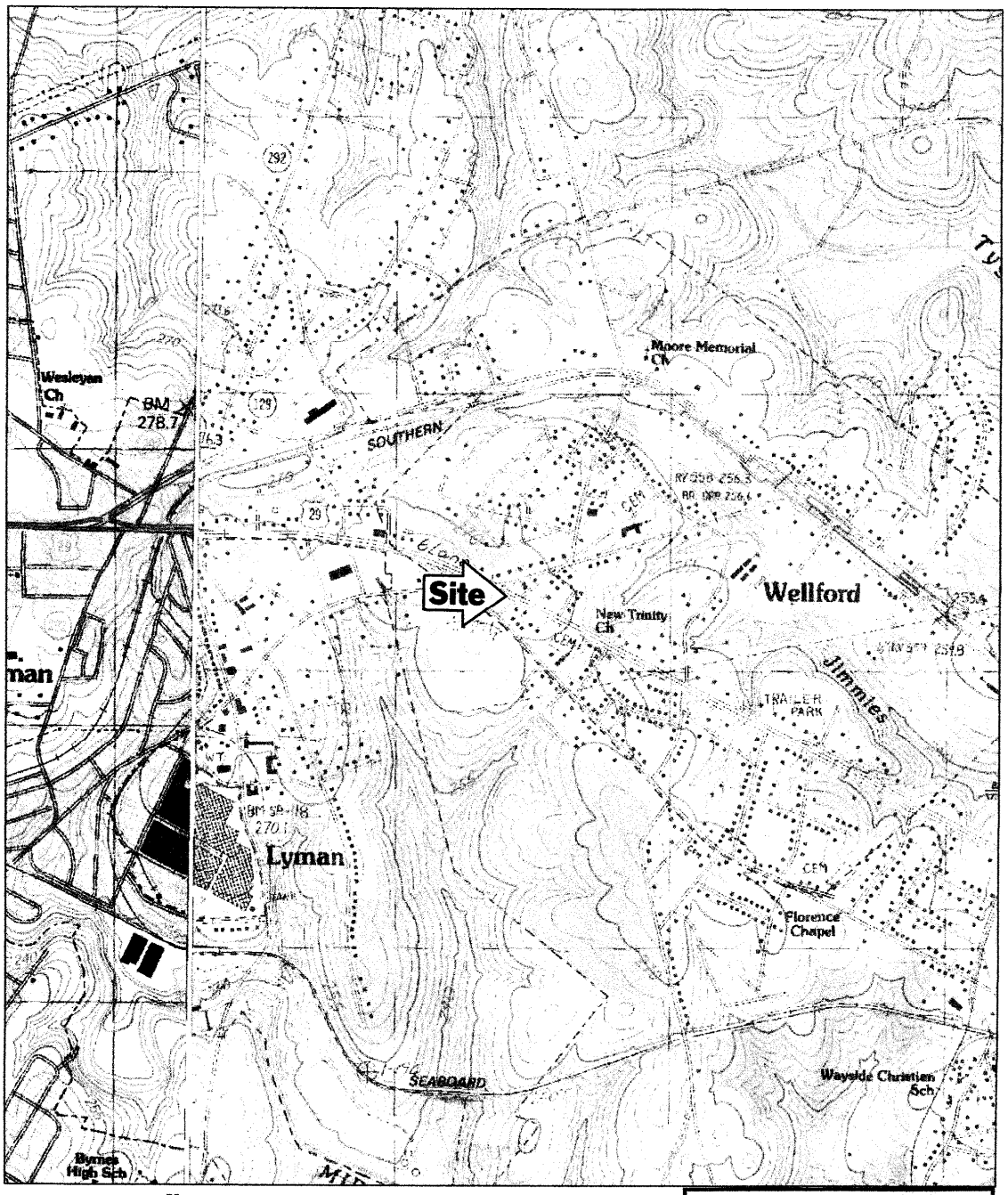
CC: Robert Turner

Enclosures

Figures
Figure 1: Site Location Map
Figure 2: Site Map

Tables
1. Total Volume of Fluids Recovered (In text)
2. Pre/Post Event Water Levels (In text)

Appendixes
A. Field Data Record Tables
B. Total Emissions Tables
C. Disposal Manifest



Rhodes Service Station
Figure 1
Site Location Map

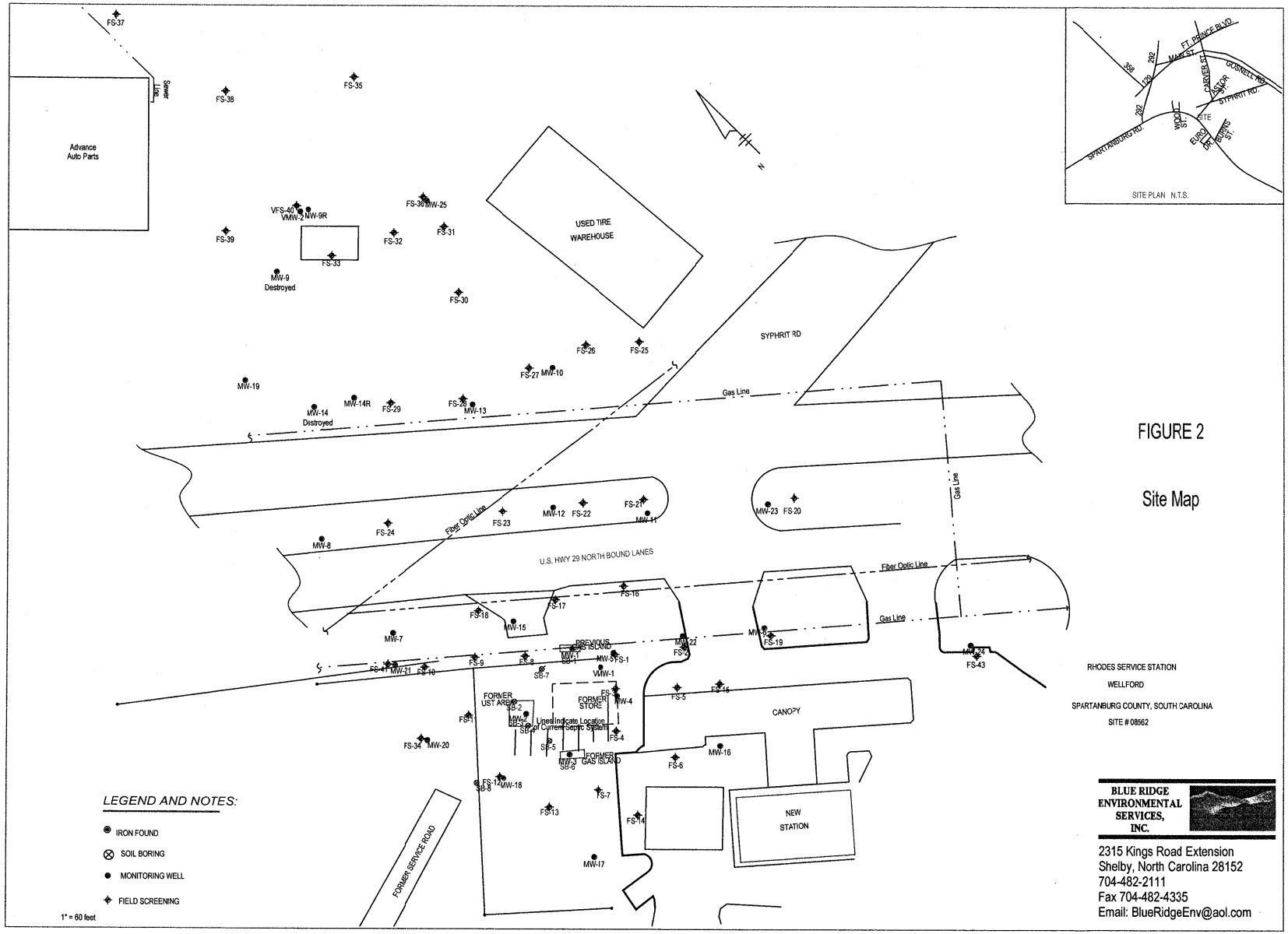


FIGURE 2

Site Map

RHODES SERVICE STATION
WELLFORD
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE # 08562

BLUE RIDGE ENVIRONMENTAL SERVICES, INC.
2315 Kings Road Extension
Shelby, North Carolina 28152
704-482-2111
Fax 704-482-4335
Email: BlueRidgeEnv@aol.com

Appendix A

Site Name																		
Date 6-24-10					Rhodes Service Station													
Monitoring Well ID																		
MW-4 H2O - 16.25 Product - 16.02 .23					MW-15 H2O - 15.73 Product - 15.52 .21													
Weather Conditions: Hot & Humid.																		
Off Gas Treatment Used																		
Discharge Stack ID= 3"																		
TIME: 30 Min Intervals																		
Time	6:00	:30	7:00	:30	8:00	:30	9:00	:30	10:00	:30	11:00	:30	12:00	:30	1:00	1:30	2:00	
FID Readings : ppm	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	
Discharge Stack Temp. °F	105°	111°	117°	121°	125°	138°	143°	150°	153°	160°	160°	160°	160°	160°	160°	160°	160°	
Discharge Stack Velocity: ft/min	264	264	264	264	176	176	264	264	264	264	264	264	264	264	264	264	264	
Barometric Pressure	16%	13%	10%	10%	10%	9%	9%	8%	6%	6%	5%	5%	5%	5%	5%	5%	5%	
Ambient Air Temp. °F	76°	79°	83°	86°	87°	89°	91°	91°	92°	93°	93°	94°	94°	95°	95°	96°	96°	

Appendix B

Emission Data Sheet for AFVR Event

Site Name and Incident no.:**Rhodes Service Station**
Incident Number: **08562**
Average depth to groundwater (in feet): 15.99
List the well I.D. and diameter used for AFVR: **MW-4 and MW-15**
Primary vertical position of stinger pipe inlet and diameter: **1.5' to 2' below top of product (2" PVC)**
List AFVR contractor:**Advanced Environmental Options (AEO)**
List blower specifications: **700 cfm @ 24" Hg and 220 cfm @ 27" Hg Based on 4000 rpm**

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Time	Vacuum at well head (inches of Hg)	Wells Pumped	Velocity (ft/min)	Pipe ID (in)	Temp (°F)	R.H. (%)	Water Vapor (Wt%)	Water Vapor (Vol%)	Q_{std} (flow)
	^:00	25.00		264	3	76	16.0	0.0850	0.120	11
	7:00	25.00		264	3	83	10.0	0.0800	0.114	11
	8:00	25.00		176	3	87	10.0	0.0950	0.132	7
	9:00	25.00	MW-4	264	3	91	9.0	0.0950	0.132	11
6/24/2010	10:00	25.00	and	264	3	92	6.0	0.0950	0.132	11
	11:00	25.00	MW-15	264	3	93	5.0	0.0950	0.132	11
	12:00	25.00		264	3	94	5.0	0.0950	0.132	11
	13:00	25.00		264	3	95	5.0	0.0950	0.132	11
	14:00	25.00		264	3	96	5.0	0.0950	0.132	11

NOTES

Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = The rate at which air flows is measured at the blower discharge piping (anemometer or pitot tube)
Pipe ID = The inside diameter of the blower discharge piping (from the vacuum truck)
Temperature = The temperature of the air stream exiting the blower discharge piping (dry bulb temp., in deg.°F)
R.H. (relative humidity) = The % relative humidity of the air stream exiting the blower discharge piping
B_{wsw} = water vapor % by weight (pounds of water per pound of dry air, derived from the Psychrometric chart), temp Vs relative humidity
B_{ws} = water vapor % by volume

EQUATIONS

$B_{ws} = (B_{wsw}/18 \text{ lb-mole } H_2O)/[(1/28.84 \text{ lb-mole dry air}) + (B_{wsw}/18 \text{ lb-mole } H_2O)]$

$Q_{std} = (1\text{-Water Vapor}) * \text{velocity} * (PI * (\text{diameter}/24)^2) * (528°R/(\text{Temp} + 460))$

Emission Data Sheet for AFVR Event #1

Time (min)	Flow (DSCFM)	$PPM_{measured}$ (ppm)	PPM_{wet}	PPM_{dry}	K (#C - gas)	PPM_{conc}	$C_{c:m}$ (mg/dsm^3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR (lb)
60	11	5,000	5000	5641	1	5641	2815	0.00017571	0.12	0.14	0.14
120	7	5,000	5000	5761	1	5761	2875	0.00017946	0.08	0.09	0.18
180	11	5,000	5000	5761	1	5761	2875	0.00017946	0.12	0.13	0.40
240	11	5,000	5000	5761	1	5761	2875	0.00017946	0.12	0.13	0.54
300	11	5,000	5000	5761	1	5761	2875	0.00017946	0.12	0.13	0.67
360	11	5,000	5000	5761	1	5761	2875	0.00017946	0.12	0.13	0.80
420	11	5,000	5000	5761	1	5761	2875	0.00017946	0.12	0.13	0.93
480	11	5,000	5000	5761	1	5761	2875	0.00017946	0.12	0.13	1.06

Total emissions in pounds **4.72**
Total emissions in gallons **0.76**

NOTES

$PPM_{measured}$ = Actual measurements (ppm) taken with a OVA or TVA at the blower discharge piping

PPM_{wet} = "wet" concentration

PPM_{dry} = "dry" concentration

K = Number of carbons in calibration gas: (Methane K = 1, or Propane K = 3, or Hexane K = 6)

PPM_c= PPM_v, Volumetric concentration of VOC emissions as carbon, dry basis at STP

$C_{c:m}$ = mg/dsm^3, mass concentration of VOC emissions as carbon

M_c = 12.01 mg/mg-mole, molecular weight of carbon

K_3 = 24.07 dsm^3/10^6 mg-mole, mass to volume conversion factor at STP

C_c = lb/dcsf, mass concentration of VOC emissions as carbon, dry basis at STP

PMR_c = lb/hr, pollutant mass removal rate of VOC's as carbon

PMR_g = lb/hr, pollutant mass removal rate of of VOC's as gasoline

PMR = lb, pollutant mass removal of VOC's as gasoline

EQUATIONS

$PPM_{wet} = PPM_{measured}$	21	1848
$PPM_{dry} = (PPM_{wet})/(1-B_{ws})$	31	2728
$PPM_c = (PPM_d)(K)$	25	2200
$C_{c:m} = (PPM_c)(M_c / K_3)$	20	1760
$C_c = (C_{c:m})(62.43x10^{-9}$ lb-m^3/mg-ft^3)	21	1848
$PMR_c = (C_c)(Q_{std})(60$ min/hr)	23	2024
$PMR_g = (PMR_c)(M_g/M_{cg})$	31	2728
$PMR = (PMR_g)$(#minutes/60)	25	2200

Appendix C

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E S Q G

Manifest Document No.: 0 1 7 3 7

2. Page 1 of 1

3. Generator's Name and Mailing Address
Rhodes Sevice Station
410 Spartanburg Hwy South
Wellford, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name: Advanced Environmental Options, Inc
6. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1
A. State Transporter's ID
B. Transporter 1 Phone: (864) 488-9111
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
Advanced Environmental Options,
25 Stan Perkins Road
Spartanburg, SC 29307
10. US EPA ID Number: S C R 0 0 0 7 6 8 6 7 1
E. State Facility's ID
F. Facility's Phone: (864) 488-9111

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
NON/DOT NON/RCRA Regulated Materials (Contains Water)	1	T T	0 3 0 0 0	P
b.	0			
c.	0			
d.	0			

GENERATOR

G. Additional Descriptions for Materials Listed Above
1) L/- product 59.3
water 890.70

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gross: 35460, Tare: 27540, Net: 7920,
Net / 8.34 = 950 gallons, Price per Gallon: $,
AEO Job #6710

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: Matthew Frye — Signature — Date: Month 6 Day 24 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MARK Seay — Signature — Date: Month 6 Day 24 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

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: Kim Darnell — Signature — Date: Month 6 Day 24 Year 10

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